

Appendix F: 2011 Summary of Facilities, Chemical Releases, Transfers, and Management (Non-PBT)

Alphabetical Listing by Facility Within Each County/Independent City

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ACCOMACK		ACCOMAC PROCESSING PLANT						22520 LANKFORD HWY				NAICS Code	31161
AMMONIA	N	11,072	0	11,072	0	44	11,116	0	0	133,292	133,292	0	0
CERTAIN GLYCOL ETHERS	N	0	0	0	0	0	0	0	0	11,861	11,861	0	0
NITRATE COMPOUNDS	N	0	0	0	0	2,064,890	2,064,890	0	0	0	0	0	0
Total for ACCOMAC PROCESSING PLANT		11,072	0	11,072	0	2,064,934	2,076,006	0	0	145,153	145,153	0	0
ACCOMACK		KMX CHEMICAL CORP						30474 ENERGY DR				NAICS Code	32519
1,4-DIOXANE	N	5	0	5	0	0	5	0	0	0	0	0	0
ETHYLENE GLYCOL	N	0	0	0	0	0	0	0	0	0	0	0	0
METHANOL	N	750	0	750	0	0	750	36,000	243,290	0	279,290	0	0
TERT-BUTYL ALCOHOL	N	750	0	750	0	0	750	82,299	0	0	82,299	0	0
Total for KMX CHEMICAL CORP		1,505	0	1,505	0	0	1,505	118,299	243,290	0	361,589	0	0
ACCOMACK		TYSON FOODS INC - TEMPERANCEVILLE						11224 LANKFORD HWY				NAICS Code	31161
AMMONIA	N	15,539	1,865	17,404	0	82	17,486	0	0	21,304	21,304	0	0
CHLORINE DIOXIDE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NITRATE COMPOUNDS	N	0	0	0	0	147,715	147,715	0	0	2,972,849	2,972,849	0	0
Total for TYSON FOODS INC - TEMPERANCEVILLE		15,539	1,865	17,404	0	147,797	165,201	0	0	2,994,153	2,994,153	0	0
Total for Above County : (10 reports)		28,116	1,865	29,981	0	2,212,731	2,242,712	118,299	243,290	3,139,306	3,500,895	0	0
ALBEMARLE		INTERNATIONAL COLD STORAGE						5678 HEARDS MOUNTAIN RD				NAICS Code	33341
DIISOCYANATES	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for INTERNATIONAL COLD STORAGE		0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-1 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for Above County : (1 record)		0	0	0	0	0	0	0	0	0	0	0	0
ALEXANDRIA (CITY)	GENON POTOMAC RIVER LLC							1400 N ROYAL ST				NAICS Code 22111	
BARIUM COMPOUNDS	N	2	36	38	0	2	40	0	0	0	0	0	31,540
HYDROCHLORIC ACID (1995 AND AFT	N	0	4,028	4,028	0	0	4,028	0	0	375,394	375,394	0	0
Total for GENON POTOMAC RIVER LLC		2	4,064	4,066	0	2	4,068	0	0	375,394	375,394	0	31,540
Total for Above County : (2 reports)		2	4,064	4,066	0	2	4,068	0	0	375,394	375,394	0	31,540
AMHERST	GREIF PACKAGING LLC							861 FIBRE PLANT RD				NAICS Code 32211	
ACETALDEHYDE	N	0	34,059	34,059	0	0	34,059	0	0	65,270	65,270	0	0
AMMONIA	N	0	0	0	0	3,598	3,598	0	0	82,751	82,751	0	0
METHANOL	N	0	186,002	186,002	0	0	186,002	0	0	222,275	222,275	0	0
NITRATE COMPOUNDS	N	0	0	0	0	2,159	2,159	0	0	295,603	295,603	0	0
Total for GREIF PACKAGING LLC		0	220,061	220,061	0	5,757	225,818	0	0	665,899	665,899	0	0
AMHERST	LYNCHBURG STEEL CO LLC							275 FRANCIS AVE				NAICS Code 33231	
CHROMIUM	Y	0	0	0	0	0	0	0	0	0	0	0	0
COPPER	Y	0	0	0	0	0	0	0	0	0	0	0	0
MANGANESE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NICKEL	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for LYNCHBURG STEEL CO LLC		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (8 reports)		0	220,061	220,061	0	5,757	225,818	0	0	665,899	665,899	0	0
ARLINGTON	ALLIED AVIATION FUELING CO INC							RONALD REAGAN NATIONAL AIRPORT				NAICS Code 42471	
BENZENE	N	0	304	304	0	0	304	0	0	0	0	0	0
CYCLOHEXANE	N	0	304	304	0	0	304	0	0	0	0	0	0
ETHYLBENZENE	N	7	310	317	0	0	317	0	0	0	0	0	91
METHYL TERT-BUTYL ETHER	N	0	608	608	0	0	608	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-2 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
NAPHTHALENE	N	14	339	353	0	0	353	0	0	0	0	0	546
N-HEXANE	N	0	304	304	0	0	304	0	0	0	0	0	0
TOLUENE	N	0	1,519	1,519	0	0	1,519	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	0	1,215	1,215	0	0	1,215	0	0	0	0	0	0
Total for ALLIED AVIATION FUELING CO INC		20	4,903	4,923	0	0	4,923	0	0	0	0	0	638
ARLINGTON VIRGINIA CONCRETE SHIRLINGTON PLANT								2651 SHIRLINGTON RD				NAICS Code	32732
NITRATE COMPOUNDS	N	0	0	0	0	180	180	0	0	0	0	0	0
Total for VIRGINIA CONCRETE SHIRLINGTON PLANT		0	0	0	0	180	180	0	0	0	0	0	0
Total for Above County : (9 reports)		20	4,903	4,923	0	180	5,103	0	0	0	0	0	638
AUGUSTA BALL ADVANCED ALUMINUM TECHNOLOGIES CORP.								56 DUNSMORE RD				NAICS Code	33131
ALUMINUM (FUME OR DUST)	N	5	13,229	13,234	0	0	13,234	0	0	0	0	0	51,000
Total for BALL ADVANCED ALUMINUM TECHNOLOGI		5	13,229	13,234	0	0	13,234	0	0	0	0	0	51,000
AUGUSTA CERRO FABRICATED PRODUCTS INC								300 TRIANGLE DR				NAICS Code	33272
COPPER	N	0	0	0	0	0	0	0	0	0	0	12	1,966
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	10,344	0
NITRIC ACID	N	5	2,198	2,203	0	0	2,203	0	0	36,160	36,160	0	0
Total for CERRO FABRICATED PRODUCTS INC		5	2,198	2,203	0	0	2,203	0	0	36,160	36,160	10,356	1,966
AUGUSTA DEGESCH AMERICA INC								153 TRIANGLE DR				NAICS Code	32532
ALUMINUM PHOSPHIDE	Y	0	0	0	0	0	0	0	0	0	0	0	0
AMMONIA	N	0	926	926	0	0	926	0	0	0	0	0	0
PHOSPHINE	N	0	360	360	0	0	360	0	0	0	0	0	0
Total for DEGESCH AMERICA INC		0	1,286	1,286	0	0	1,286	0	0	0	0	0	0
AUGUSTA FLINT GROUP NORTH AMERICA CORP								106 TRIANGLE DR				NAICS Code	32591
BARIUM COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-3 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for FLINT GROUP NORTH AMERICA CORP		0	0	0	0	0	0	0	0	0	0	0	0
AUGUSTA		GROTTOES PLASTICS PLANT						149 GRAND CAVERNS DR				NAICS Code	32611
ZINC COMPOUNDS	N	0	0	0	0	0	0	0	134	0	134	0	113
Total for GROTTOES PLASTICS PLANT		0	0	0	0	0	0	0	134	0	134	0	113
AUGUSTA		INVISTA S.A R.L. - WAYNESBORO FACILITY						400 DU PONT BLVD				NAICS Code	32521
DIISOCYANATES	N	18	0	18	0	0	18	0	0	0	0	0	4,525
HYDROCHLORIC ACID (1995 AND AFT	N	0	53,000	53,000	0	0	53,000	0	0	0	0	0	0
NITRATE COMPOUNDS	N	0	0	0	0	21,000	21,000	0	0	80,000	80,000	0	0
Total for INVISTA S.A R.L. - WAYNESBORO FACILIT		18	53,000	53,018	0	21,000	74,018	0	0	80,000	80,000	0	4,525
AUGUSTA		MASTIC HOME EXTERIORS STUARTS DRAFT						185 JOHNSON DR				NAICS Code	32619
ANTIMONY COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
CHROMIUM COMPOUNDS (EXCEPT F	Y	0	0	0	0	0	0	0	0	0	0	0	0
MANGANESE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for MASTIC HOME EXTERIORS STUARTS DRA		0	0	0	0	0	0	0	0	0	0	0	0
AUGUSTA		MCQUAY INTERNATIONAL INC						207 LAUREL HILL RD				NAICS Code	33341
COPPER	N	6,098	0	6,098	0	0	6,098	0	0	0	0	280	112,638
Total for MCQUAY INTERNATIONAL INC		6,098	0	6,098	0	0	6,098	0	0	0	0	280	112,638
AUGUSTA		NEUMAN ALUMINIUM IMPACT EXTRUSION INC.						1418 GENICOM DR				NAICS Code	33131
TRICHLOROETHYLENE	N	100	25,320	25,420	0	0	25,420	0	3,900	0	3,900	0	10,420
Total for NEUMAN ALUMINIUM IMPACT EXTRUSION I		100	25,320	25,420	0	0	25,420	0	3,900	0	3,900	0	10,420
AUGUSTA		NIBCO OF VIRGINIA INC.						131 JOHNSON DRIVE				NAICS Code	33211
CHROMIUM	N	0	0	0	0	1	1	0	0	0	0	1	20,742
COPPER	N	7,294	3,436	10,730	0	18	10,748	0	0	0	0	17	155,683
Total for NIBCO OF VIRGINIA INC.		7,294	3,436	10,730	0	19	10,749	0	0	0	0	18	176,425

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-4 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
AUGUSTA	REXNORD INDUSTRIES LLC							150 JOHNSON DR				NAICS Code	33361
AMMONIA	N	0	5,067	5,067	0	0	5,067	0	0	0	0	0	0
Total for REXNORD INDUSTRIES LLC		0	5,067	5,067	0	0	5,067	0	0	0	0	0	0
AUGUSTA	SCHICK MANUFACTURING, INC.							1 RAZOR BLADE LN RT 612				NAICS Code	33221
AMMONIA	N	812	55	867	0	0	867	0	0	0	0	0	0
CHROMIUM	N	0	0	0	0	0	0	0	0	0	0	0	30,607
TRICHLOROETHYLENE	N	85,699	25,076	110,775	0	8	110,783	0	2,982,235	0	2,982,235	0	10,272
Total for Schick Manufacturing, Inc.		86,511	25,131	111,642	0	8	111,650	0	2,982,235	0	2,982,235	0	40,879
AUGUSTA	SUNLITE PLASTICS INC.							846 KEEZLETOWN RD				NAICS Code	32619
DI(2-ETHYLHEXYL) PHTHALATE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for SUNLITE PLASTICS INC.		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (25 reports)		100,031	128,667	228,698	0	21,027	249,725	0	2,986,269	116,160	3,102,429	10,654	397,966
BEDFORD	BARR LABORATORIES INC							2150 PERROWVILLE RD				NAICS Code	32541
TETRACYCLINE HYDROCHLORIDE	N	0	0	0	0	0	0	0	0	0	0	0	176
Total for BARR LABORATORIES INC		0	0	0	0	0	0	0	0	0	0	0	176
BEDFORD	BLUE RIDGE WOOD PRESERVING INC.							1220 HENDRICKS STORE RD				NAICS Code	32111
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for BLUE RIDGE WOOD PRESERVING INC.		0	0	0	0	0	0	0	0	0	0	0	0
BEDFORD	GEORGIA-PACIFIC BIG ISLAND MILL							9363 LEE-JACKSON HWY				NAICS Code	32212
ACETALDEHYDE	N	1,400	54,000	55,400	15	810	56,225	0	0	57,000	57,000	0	0
AMMONIA	N	500	0	500	1	2,000	2,501	0	0	0	0	0	0
BARIUM COMPOUNDS	N	0	2,000	2,000	30,900	6,600	39,500	0	0	0	0	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	24,000	24,000	0	0	24,000	0	0	0	0	0	0
MANGANESE COMPOUNDS	N	0	3,500	3,500	68,300	12,200	84,000	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-5 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
METHANOL	N	2,500	283,000	285,500	90	780	286,370	0	0	141,000	141,000	0	0
NITRATE COMPOUNDS	N	0	0	0	1	2,400	2,401	0	0	0	0	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	24,000	24,000	0	0	24,000	0	0	0	0	0	0
Total for GEORGIA-PACIFIC BIG ISLAND MILL		4,400	390,500	394,900	99,307	24,790	518,997	0	0	198,000	198,000	0	0
BEDFORD								1191 VENTURE DR				NAICS Code	32191
METHYL METHACRYLATE	N	2,851	615	3,466	0	0	3,466	0	0	0	0	0	4,935
Total for Nydree Flooring, LLC		2,851	615	3,466	0	0	3,466	0	0	0	0	0	4,935
Total for Above County : (11 reports)		7,251	391,115	398,366	99,307	24,790	522,463	0	0	198,000	198,000	0	5,111
BLAND								171 INDUSTRY DR				NAICS Code	33531
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	434,248
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	14,042
NICKEL COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	6,301
ZINC COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	1,256
Total for ABB INC		0	0	0	0	0	0	0	0	0	0	0	455,847
BLAND								254 INDUSTRY DR				NAICS Code	33531
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	11,796
Total for PASCOR ATLANTIC CORP		0	0	0	0	0	0	0	0	0	0	0	11,796
Total for Above County : (5 reports)		0	0	0	0	0	0	0	0	0	0	0	467,643
BOTETOURT								325 SOUTH CENTER DRIVE				NAICS Code	33621
MANGANESE	N	5	0	5	0	0	5	0	0	0	0	0	22,000
Total for Altec Industries, Inc.		5	0	5	0	0	5	0	0	0	0	0	22,000
BOTETOURT								568 E PARK DR				NAICS Code	33635
METHANOL	N	35,480	10,954	46,434	0	0	46,434	0	0	967,669	967,669	0	16,795
PHENOL	N	3,866	1,136	5,002	0	0	5,002	0	0	100,346	100,346	2	1,719

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-6 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for DYNAX AMERICA CORP		39,346	12,090	51,436	0	0	51,436	0	0	1,068,015	1,068,015	2	18,514
BOTETOURT GALA INDUSTRIES INC.								181 PAULEY ST				NAICS Code	33322
CHROMIUM	N	0	0	0	0	0	0	0	0	0	0	0	46,218
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	5,903
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	6,306
NICKEL	N	0	0	0	0	0	0	0	0	0	0	0	28,309
Total for GALA INDUSTRIES INC.		0	0	0	0	0	0	0	0	0	0	0	86,736
BOTETOURT GENERAL SHALE BRICK INC PLANT 35 & 36								2353 WEBSTER RD				NAICS Code	32712
HYDROCHLORIC ACID (1995 AND AFT	N	0	37,206	37,206	0	0	37,206	0	0	5,181	5,181	0	0
HYDROGEN FLUORIDE	N	0	12,952	12,952	0	0	12,952	0	0	122,452	122,452	0	0
MANGANESE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for GENERAL SHALE BRICK INC PLANT 35 & 3		0	50,158	50,158	0	0	50,158	0	0	127,633	127,633	0	0
BOTETOURT METALSA ROANOKE INC.								184 VISTA DR				NAICS Code	33639
MANGANESE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NICKEL	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for METALSA ROANOKE INC.		0	0	0	0	0	0	0	0	0	0	0	0
BOTETOURT ROANOKE CEMENT CO LLC								6071 CATAWBA RD				NAICS Code	32731
CHROMIUM COMPOUNDS (EXCEPT F	Y	0	0	0	0	0	0	0	0	0	0	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	11,258	11,258	0	0	11,258	0	0	0	0	0	0
MANGANESE COMPOUNDS	N	268	91	359	1,143	20	1,522	0	0	0	0	0	0
Total for ROANOKE CEMENT CO LLC		268	11,349	11,617	1,143	20	12,780	0	0	0	0	0	0
BOTETOURT TREAD CORP								176 EASTPARK DR				NAICS Code	33211
CHROMIUM	N	0	0	0	0	0	0	0	0	0	0	0	102,480
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	11,154
NICKEL	N	0	0	0	0	0	0	0	0	0	0	0	53,742

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-7 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for TREAD CORP		0	0	0	0	0	0	0	0	0	0	0	167,376
Total for Above County : (18 reports)		39,619	73,597	113,216	1,143	20	114,379	0	0	1,195,648	1,195,648	2	294,626
BRISTOL (CITY)	STRONGWELL-BRISTOL DIV							400 COMMONWEALTH AVE				NAICS Code	32619
ANTIMONY	N	0	250	250	0	0	250	0	0	0	0	0	4,051
DECABROMODIPHENYL OXIDE	N	0	250	250	0	0	250	0	0	0	0	0	8,100
STYRENE	N	81,000	0	81,000	0	0	81,000	0	0	0	0	0	750
Total for STRONGWELL-BRISTOL DIV		81,000	500	81,500	0	0	81,500	0	0	0	0	0	12,901
Total for Above County : (3 reports)		81,000	500	81,500	0	0	81,500	0	0	0	0	0	12,901
BRUNSWICK	REDLAND BRICK INC.- LAWRENCEVILLE PLANT							16024 GOVERNOR HARRISON PKWY				NAICS Code	32712
HYDROGEN FLUORIDE	N	0	225	225	0	0	225	0	0	26,204	26,204	0	0
MANGANESE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for Redland Brick Inc.- Lawrenceville Plant		0	225	225	0	0	225	0	0	26,204	26,204	0	0
Total for Above County : (2 reports)		0	225	225	0	0	225	0	0	26,204	26,204	0	0
BUCHANAN	JEWELL COKE CO L.P.							1034 DISMAL RIVER ROAD				NAICS Code	33111
HYDROCHLORIC ACID (1995 AND AFT	N	0	1,310,828	1,310,828	0	0	1,310,828	0	0	0	0	0	0
Total for JEWELL COKE CO L.P.		0	1,310,828	1,310,828	0	0	1,310,828	0	0	0	0	0	0
BUCHANAN	MINVOA USA INC.							2738 HOME CREEK ROAD				NAICS Code	33272
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	108
NICKEL	N	0	0	0	0	0	0	0	0	0	0	0	17
Total for Minvoa USA Inc.		0	0	0	0	0	0	0	0	0	0	0	125
Total for Above County : (3 reports)		0	1,310,828	1,310,828	0	0	1,310,828	0	0	0	0	0	125
BUCKINGHAM	BEAR GARDEN GENERATING STATION							2608 C.G. WOODSON ROAD				NAICS Code	22111
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-8 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
AMMONIA	N	0	18,800	18,800	0	0	18,800	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for Bear Garden Generating Station		0	18,800	18,800	0	0	18,800	0	0	0	0	0	0
Total for Above County : (4 reports)		0	18,800	18,800	0	0	18,800	0	0	0	0	0	0
CAMPBELL		BABCOCK & WILCOX NUCLEAR OPERATIONS GROUP						1570 MOUNT ATHOS RD				NAICS Code 33241	
CHROMIUM COMPOUNDS (EXCEPT F	N	14	76	90	2	7	99	0	0	0	0	0	100
COPPER COMPOUNDS	N	0	13	13	1	19	33	0	0	0	0	0	84,093
HYDROGEN FLUORIDE	N	0	151	151	0	0	151	0	1,311	52,748	54,059	0	2,401
NICKEL COMPOUNDS	N	3	155	159	4	15	177	0	0	0	0	0	40
NITRATE COMPOUNDS	N	0	0	0	0	934,693	934,693	0	0	0	0	0	164,067
NITRIC ACID	N	17	3,044	3,061	0	0	3,061	0	11,704	1,063,331	1,075,035	0	550,556
Total for Babcock & Wilcox Nuclear Operations Group		34	3,439	3,473	7	934,734	938,214	0	13,014	1,116,079	1,129,094	0	801,257
CAMPBELL		BANKER STEEL COMPANY, LLC						351 RANGOON ROAD				NAICS Code 33231	
CHROMIUM	N	5	5	10	0	5	15	0	0	0	0	0	18,755
MANGANESE	N	5	5	10	0	5	15	0	0	0	0	0	36,455
NICKEL	N	5	5	10	0	5	15	0	0	0	0	0	36,040
Total for Banker Steel Company, LLC		15	15	30	0	15	45	0	0	0	0	0	91,250
CAMPBELL		GEORGIA-PACIFIC WOOD PRODUCTS LLC - BROOKNEAL OSB						11795 BROOKNEAL HIGHWAY				NAICS Code 32121	
ACETALDEHYDE	N	0	6,400	6,400	0	0	6,400	0	0	59,000	59,000	0	0
ACROLEIN	N	0	2,700	2,700	0	0	2,700	0	0	27,000	27,000	0	0
AMMONIA	N	0	52,000	52,000	0	0	52,000	0	0	0	0	0	0
FORMALDEHYDE	N	0	9,000	9,000	2	0	9,002	0	0	69,000	69,000	0	0
METHANOL	N	0	58,000	58,000	0	0	58,000	0	0	170,000	170,000	0	0
Total for GEORGIA-PACIFIC WOOD PRODUCTS LLC		0	128,100	128,100	2	0	128,102	0	0	325,000	325,000	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-9 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
CAMPBELL	SCHRADER-BRIDGEPORT INTERNATIONAL							205 FRAZIER RD				NAICS Code	33351
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	1,198,250
Total for SCHRADER-BRIDGEPORT INTERNATIONAL		0	0	0	0	0	0	0	0	0	0	0	1,198,250
CAMPBELL	TIMKEN CO ALTAVISTA BEARING PLANT							2097 DEARING FORD RD				NAICS Code	33299
NICKEL	N	1	0	1	0	0	1	0	0	0	0	0	3,202
Total for TIMKEN CO ALTAVISTA BEARING PLANT		1	0	1	0	0	1	0	0	0	0	0	3,202
Total for Above County : (16 reports)		50	131,554	131,604	9	934,749	1,066,362	0	13,014	1,441,079	1,454,094	0	2,093,959
CAROLINE	HOOVER TREATED WOOD PRODUCTS, INC							18315 HOUSE DR				NAICS Code	32199
ARSENIC COMPOUNDS	N	0	0	0	0	7	7	0	0	0	0	0	0
CHROMIUM COMPOUNDS (EXCEPT F	N	0	0	0	0	13	13	0	0	0	0	0	0
COPPER COMPOUNDS	N	0	0	0	0	10	10	0	0	0	0	0	0
Total for HOOVER TREATED WOOD PRODUCTS, IN		0	0	0	0	30	30	0	0	0	0	0	0
CAROLINE	JCI JONES CHEMICALS INC.							16248 INDUSTRIAL DR				NAICS Code	42469
CHLORINE	N	0	1	1	0	0	1	0	780	0	780	0	0
Total for JCI JONES CHEMICALS INC.		0	1	1	0	0	1	0	780	0	780	0	0
CAROLINE	LADYSMITH COMBUSTION TURBINE STATION							8063 CEDON RD				NAICS Code	22111
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for LADYSMITH COMBUSTION TURBINE STATI		0	0	0	0	0	0	0	0	0	0	0	0
CAROLINE	U.S. ARMY FORT AP HILL TRAINING RANGES DPTMS FAPH							18902 AP HILL DR				NAICS Code	92811
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	0
NITROGLYCERIN	N	0	0	0	93,820	753	94,573	0	0	0	0	0	0
Total for U.S. ARMY FORT AP HILL TRAINING RANG		0	0	0	93,820	753	94,573	0	0	0	0	0	0
Total for Above County : (8 reports)		0	1	1	93,820	783	94,604	0	780	0	780	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-10 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
CARROLL	CATERPILLAR GLOBAL MINING							107 RAINTREE ROAD				NAICS Code	33392
MANGANESE	N	24	0	24	0	0	24	0	0	0	0	0	0
Total for Caterpillar Global Mining		24	0	24	0	0	24	0	0	0	0	0	0
CARROLL	VAUGHAN-BASSETT FURNITURE CO. GALAX							300 E GRAYSON ST				NAICS Code	33712
CERTAIN GLYCOL ETHERS	N	1,499	8,494	9,992	0	0	9,992	0	0	0	0	0	107
METHANOL	N	3,289	18,637	21,926	0	0	21,926	0	0	0	0	0	239
TOLUENE	N	10,607	60,230	70,837	0	0	70,837	0	0	0	0	0	747
VINYL ACETATE	N	24,604	0	24,604	0	0	24,604	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	2,530	14,338	16,868	0	0	16,868	0	0	0	0	0	180
Total for VAUGHAN-BASSETT FURNITURE CO. GAL		42,529	101,699	144,228	0	0	144,228	0	0	0	0	0	1,272
Total for Above County : (6 reports)		42,553	101,699	144,252	0	0	144,252	0	0	0	0	0	1,272
CHESAPEAKE (CITY)	AMERICAN GFM CORP							1200 CAVALIER BLVD				NAICS Code	33351
AMMONIA	N	5,655	5,655	11,310	0	0	11,310	0	0	0	0	0	0
Total for AMERICAN GFM CORP		5,655	5,655	11,310	0	0	11,310	0	0	0	0	0	0
CHESAPEAKE (CITY)	APEX OIL CO							428 BARNES RD				NAICS Code	42471
BENZENE	N	250	250	500	0	0	500	0	0	0	0	0	0
ETHYLBENZENE	N	5	250	255	0	0	255	0	0	0	0	0	0
N-HEXANE	N	250	750	1,000	0	0	1,000	0	0	0	0	0	0
TOLUENE	N	250	750	1,000	0	0	1,000	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	5	250	255	0	0	255	0	0	0	0	0	0
Total for APEX OIL CO		760	2,250	3,010	0	0	3,010	0	0	0	0	0	0
CHESAPEAKE (CITY)	CARBON BURN-OUT CHESAPEAKE ENERGY CENTER							2703 VEPCO ST				NAICS Code	32799
ARSENIC COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
BARIUM COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-11 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
NICKEL COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for CARBON BURN-OUT CHESAPEAKE ENER		0	0	0	0	0	0	0	0	0	0	0	0
CHESAPEAKE (CITY) CHESAPEAKE ENERGY CENTER								2701 VEPCO ST				NAICS Code	22111
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
AMMONIA	N	0	6,200	6,200	0	320	6,520	0	0	0	0	0	0
ARSENIC COMPOUNDS	N	0	57	57	2,000	20	2,077	0	0	0	0	0	0
BARIUM COMPOUNDS	N	0	0	0	19,000	3,200	22,200	0	0	0	0	0	0
CHROMIUM COMPOUNDS (EXCEPT F	N	0	110	110	3,400	1	3,511	0	0	0	0	0	0
COPPER COMPOUNDS	N	0	2	2	3,900	160	4,062	0	0	0	0	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	1,500,000	1,500,000	0	0	1,500,000	0	0	0	0	0	0
HYDROGEN FLUORIDE	N	0	190,000	190,000	0	0	190,000	0	0	0	0	0	0
MANGANESE COMPOUNDS	N	0	150	150	4,800	300	5,250	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NICKEL COMPOUNDS	N	0	120	120	3,400	5	3,525	0	0	0	0	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	98,000	98,000	0	0	98,000	0	0	310,000	310,000	0	0
VANADIUM COMPOUNDS	N	0	0	0	7,300	0	7,300	0	0	0	0	0	0
ZINC COMPOUNDS	N	0	2	2	2,700	16,000	18,702	0	0	0	0	0	0
Total for CHESAPEAKE ENERGY CENTER		0	1,794,641	1,794,641	46,500	20,006	1,861,147	0	0	310,000	310,000	0	0
CHESAPEAKE (CITY) CHESAPEAKE SOY CRUSHING								501 BARNES RD				NAICS Code	31122
HYDROCHLORIC ACID (1995 AND AFT	N	0	25,400	25,400	0	0	25,400	0	0	0	0	0	0
N-HEXANE	N	86,000	191,000	277,000	0	0	277,000	0	0	0	0	430	430
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for CHESAPEAKE SOY CRUSHING		86,000	216,400	302,400	0	0	302,400	0	0	0	0	430	430
CHESAPEAKE (CITY) ELIZABETH RIVER COMBUSTION TURBINE STATION								2837 S MILITARY HWY				NAICS Code	22111

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-12 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for ELIZABETH RIVER COMBUSTION TURBINE		0	0	0	0	0	0	0	0	0	0	0	0
CHESAPEAKE (CITY)	FLOWSERVE US INC							3900 COOK BLVD				NAICS Code	33391
CHROMIUM	Y	0	0	0	0	0	0	0	0	0	0	0	0
NICKEL	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for FLOWSERVE US INC		0	0	0	0	0	0	0	0	0	0	0	0
CHESAPEAKE (CITY)	HESS CORP CHESAPEAKE TERMINAL							4030 BUELL ST				NAICS Code	42471
1,2,4-TRIMETHYLBENZENE	N	111	77	188	0	0	188	0	0	0	0	0	0
BENZENE	N	105	252	357	0	0	357	0	0	0	0	0	0
ETHYLBENZENE	N	75	39	114	0	0	114	0	0	0	0	0	0
NAPHTHALENE	N	19	4	23	0	0	23	0	0	0	0	0	0
N-HEXANE	N	119	480	599	0	0	599	0	0	0	0	0	0
TOLUENE	N	374	396	770	0	0	770	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	334	174	508	0	0	508	0	0	0	0	0	0
Total for HESS CORP CHESAPEAKE TERMINAL		1,137	1,422	2,559	0	0	2,559	0	0	0	0	0	0
CHESAPEAKE (CITY)	MITSUBISHI KAGAKU IMAGING CORP							401 VOLVO PKWY				NAICS Code	32599
CHROMIUM COMPOUNDS(EXCEPT C	N	5	250	255	0	0	255	0	0	0	0	0	640
ZINC COMPOUNDS	N	5	250	255	0	0	255	0	0	0	0	0	5,602
Total for MITSUBISHI KAGAKU IMAGING CORP		10	500	510	0	0	510	0	0	0	0	0	6,242
CHESAPEAKE (CITY)	MITSUBISHI PLASTIC COMPOSITES AMERICA							401 VOLVO PKWY				NAICS Code	33281
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	9,404
Total for MITSUBISHI PLASTIC COMPOSITES AMERI		0	0	0	0	0	0	0	0	0	0	0	9,404
CHESAPEAKE (CITY)	SOUTHERN STATES CO-OP INC							2651 S MILITARY HWY				NAICS Code	32531

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-13 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
MANGANESE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for SOUTHERN STATES CO-OP INC		0	0	0	0	0	0	0	0	0	0	0	0
CHESAPEAKE (CITY) UNIFIN CHESAPEAKE TRI RY2011								2601 F TRADE ST				NAICS Code	33241
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	13,650
Total for UNIFIN CHESAPEAKE TRI RY2011		0	0	0	0	0	0	0	0	0	0	0	13,650
Total for Above County : (44 reports)		93,562	2,020,868	2,114,430	46,500	20,006	2,180,936	0	0	310,000	310,000	430	29,726
CHESTERFIELD ALERIS ROLLED PRODUCTS, INC.								1701 REYMET RD				NAICS Code	33131
ALUMINUM (FUME OR DUST)	N	2,735	5,823	8,558	0	0	8,558	0	0	0	0	0	712,571
Total for Aleris Rolled Products, Inc.		2,735	5,823	8,558	0	0	8,558	0	0	0	0	0	712,571
CHESTERFIELD BELLWOOD PRINTING PLANT								2001 REYMET RD				NAICS Code	32311
N-METHYL-2-PYRROLIDONE	N	2,828	2,828	5,656	0	0	5,656	0	0	0	0	0	4,345
Total for BELLWOOD PRINTING PLANT		2,828	2,828	5,656	0	0	5,656	0	0	0	0	0	4,345
CHESTERFIELD CHESTERFIELD POWER STATION								500 COXENDALE RD				NAICS Code	22111
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
AMMONIA	N	0	22,000	22,000	0	40,000	62,000	0	0	0	0	0	0
ARSENIC COMPOUNDS	N	0	67	67	32,000	0	32,067	0	0	0	0	0	0
BARIUM COMPOUNDS	N	0	74	74	300,000	0	300,074	0	0	0	0	0	0
CHROMIUM COMPOUNDS (EXCEPT F	N	0	160	160	54,000	0	54,160	0	0	0	0	0	0
COBALT COMPOUNDS	N	0	30	30	19,000	0	19,030	0	0	0	0	0	0
COPPER COMPOUNDS	N	0	16	16	61,000	470	61,486	0	0	0	0	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	950,000	950,000	0	0	950,000	0	0	0	0	0	0
HYDROGEN FLUORIDE	N	0	120,000	120,000	0	0	120,000	0	0	0	0	0	0
MANGANESE COMPOUNDS	N	0	230	230	76,000	0	76,230	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-14 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
NICKEL COMPOUNDS	N	0	120	120	54,000	0	54,120	0	0	0	0	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	100,000	100,000	0	0	100,000	0	0	0	0	0	0
VANADIUM COMPOUNDS	N	0	39	39	110,000	0	110,039	0	0	0	0	0	0
ZINC COMPOUNDS	N	0	490	490	67,000	880	68,370	0	0	0	0	0	0
Total for CHESTERFIELD POWER STATION		0	1,193,226	1,193,226	773,000	41,350	2,007,576	0	0	0	0	0	0
CHESTERFIELD	CHURCH & DWIGHT CO. INC.							1851 TOUCHSTONE RD				NAICS Code	32629
AMMONIA	N	21,023	395,081	416,104	0	0	416,104	0	0	0	0	436	436
NITRATE COMPOUNDS	N	0	115	115	0	0	115	0	0	0	0	46,255	48,312
Total for CHURCH & DWIGHT CO. INC.		21,023	395,196	416,219	0	0	416,219	0	0	0	0	46,691	48,748
CHESTERFIELD	DUPONT JAMES RIVER PLANT							1201 BELLWOOD RD				NAICS Code	32518
SULFURIC ACID - (1994 AND AFTER "	N	2,780	12,798	15,578	0	0	15,578	0	0	0	0	0	0
Total for DUPONT JAMES RIVER PLANT		2,780	12,798	15,578	0	0	15,578	0	0	0	0	0	0
CHESTERFIELD	DUPONT SPRUANCE PLANT							U.S. HWY 1 AT COGBILL RD				NAICS Code	32522
1,3-PHENYLENEDIAMINE	N	0	0	0	0	0	0	0	0	0	0	0	2,162
CHLOROFORM	N	1,022	6,762	7,784	0	17	7,801	0	0	527	527	0	0
DIMETHYLAMINE	N	67,245	0	67,245	0	39,864	107,109	0	0	106,429	106,429	0	0
N-METHYL-2-PYRROLIDONE	N	0	51,920	51,920	0	7,973	59,893	0	0	34,921	34,921	0	456,597
P-PHENYLENEDIAMINE	N	0	0	0	0	0	0	0	0	0	0	0	6,228
TOLUENE	N	20,774	22,506	43,280	0	17	43,297	0	0	0	0	0	10,368
TRICHLOROFLUOROMETHANE	N	103,852	7,718	111,570	0	17	111,587	0	0	430	430	0	0
Total for DUPONT SPRUANCE PLANT		192,893	88,906	281,799	0	47,888	329,687	0	0	142,307	142,307	0	475,355
CHESTERFIELD	DUPONT TEIJIN FILMS							3600 DISCOVERY DR				NAICS Code	32521
ACETALDEHYDE	N	0	38,000	38,000	0	903	38,903	0	0	11,860	11,860	77	68
ANTIMONY COMPOUNDS	N	0	0	0	0	51	51	0	0	0	0	159	90
ETHYLENE GLYCOL	N	20	1,012	1,032	0	1,509	2,541	0	0	486,069	486,069	120,944	108,366

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-15 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
METHANOL	N	10,800	100,920	111,720	0	503	112,223	0	0	237,816	237,816	41,599	41,474
Total for DUPONT TEIJIN FILMS		10,820	139,932	150,752	0	2,966	153,718	0	0	735,745	735,745	162,779	149,998
CHESTERFIELD	ETERNAL TECHNOLOGY CORP							1800 TOUCHSTONE RD				NAICS Code	32599
TOLUENE	N	115	48	163	0	0	163	4,825	0	0	4,825	0	248
Total for ETERNAL TECHNOLOGY CORP		115	48	163	0	0	163	4,825	0	0	4,825	0	248
CHESTERFIELD	HONEYWELL INTERNATIONAL COLONIAL HEIGHTS PLANT							15801 WOODS EDGE RD				NAICS Code	32522
FREON 113	N	239,647	100,046	339,693	0	0	339,693	0	313,661,973	0	313,661,973	0	3,088
Total for HONEYWELL INTERNATIONAL COLONIAL H		239,647	100,046	339,693	0	0	339,693	0	313,661,973	0	313,661,973	0	3,088
CHESTERFIELD	INDUSTRIAL CHEMICALS INC							2540 BELLWOOD RD				NAICS Code	42469
CYCLOHEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLENE GLYCOL	Y	0	0	0	0	0	0	0	0	0	0	0	0
METHANOL	Y	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for INDUSTRIAL CHEMICALS INC		0	0	0	0	0	0	0	0	0	0	0	0
CHESTERFIELD	PHILIP MORRIS USA PARK 500 SITE							4100 BERMUDA HUNDRED RD				NAICS Code	31222
AMMONIA	N	3,737	377,417	381,154	0	180	381,334	0	0	2,446	2,446	0	770
CHLORINE	N	0	294	294	0	0	294	0	0	0	0	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	205,610	205,610	0	0	205,610	0	0	0	0	0	0
NICOTINE AND SALTS	N	206	20,600	20,806	0	30	20,836	0	0	146,305	146,305	0	108,072
NITRATE COMPOUNDS	N	0	0	0	0	3,232	3,232	0	0	1,163,678	1,163,678	0	0
Total for PHILIP MORRIS USA PARK 500 SITE		3,943	603,921	607,864	0	3,442	611,306	0	0	1,312,429	1,312,429	0	108,842
CHESTERFIELD	SAFETY-KLEEN SYSTEMS (315401)							1200 W 100 RD PO BOX 1098				NAICS Code	56211
ETHYLENE GLYCOL	N	1	6	7	0	0	7	0	0	0	0	0	191,758
Total for SAFETY-KLEEN SYSTEMS (315401)		1	6	7	0	0	7	0	0	0	0	0	191,758
CHESTERFIELD	SUPER RADIATOR COILS							451 SOUTHLAKE BLVD				NAICS Code	33341

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-16 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
CHROMIUM	Y	0	0	0	0	0	0	0	0	0	0	0	0
COPPER	Y	0	0	0	0	0	0	0	0	0	0	0	0
NICKEL	Y	0	0	0	0	0	0	0	0	0	0	0	0
TETRACHLOROETHYLENE	N	0	3,491	3,491	0	0	3,491	0	0	0	0	0	14,490
Total for SUPER RADIATOR COILS		0	3,491	3,491	0	0	3,491	0	0	0	0	0	14,490
CHESTERFIELD	TRIDENT AMERICAS							833 LIBERTY WAY				NAICS Code	33281
COPPER	N	0	250	250	0	0	250	0	0	0	0	0	9,053
Total for Trident Americas		0	250	250	0	0	250	0	0	0	0	0	9,053
CHESTERFIELD	UNIVAR USA INC CHESTER FACILIT Y							1001 OLD BERMUDA HUNDRED RD				NAICS Code	42469
CERTAIN GLYCOLEETHERS	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLENE GLYCOL	Y	0	0	0	0	0	0	0	0	0	0	0	0
METHANOL	N	733	533	1,266	0	0	1,266	0	0	0	0	0	250
METHYL ISOBUTYL KETONE	Y	0	0	0	0	0	0	0	0	0	0	0	0
METHYL TERT-BUTYL ETHER	Y	0	0	0	0	0	0	0	0	0	0	0	0
N,N-DIMETHYLFORMAMIDE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	N	5	793	798	0	0	798	0	0	0	0	0	250
TOLUENE	N	38	622	660	0	0	660	0	0	0	0	0	250
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for UNIVAR USA INC CHESTER FACILIT Y		776	1,948	2,724	0	0	2,724	0	0	0	0	0	750
CHESTERFIELD	US DEFENSE LOGISTICS AGENCY DEFENSE SUPPLY CENTER RICHM							8000 JEFFERSON DAVIS HWY				NAICS Code	42512
BROMOCHLORODIFLUOROMETHANE	N	285	0	285	0	0	285	0	43,500	0	43,500	0	0
BROMOTRIFLUOROMETHANE	N	2,132	0	2,132	0	0	2,132	0	58,553	0	58,553	0	0
DICHLORODIFLUOROMETHANE (CFC	N	1,093	0	1,093	0	0	1,093	0	50,305	0	50,305	0	0
TRICHLOROFLUOROMETHANE	N	513	0	513	0	0	513	0	54,000	0	54,000	0	0
Total for US DEFENSE LOGISTICS AGENCY DEFEN		4,023	0	4,023	0	0	4,023	0	206,358	0	206,358	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBTchemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A , no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-17 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
CHESTERFIELD	WAKO CHEMICALS USA INC							1600 BELLWOOD RD				NAICS Code	32519
AMMONIA	N	100	40	140	0	0	140	0	0	1,000	1,000	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	200	530	730	0	0	730	0	0	12,500	12,500	0	0
METHANOL	N	400	15,000	15,400	0	0	15,400	0	0	142,000	142,000	16,000	126,400
TOLUENE	N	400	2,400	2,800	0	0	2,800	0	0	7,000	7,000	600	40,600
Total for WAKO CHEMICALS USA INC		1,100	17,970	19,070	0	0	19,070	0	0	162,500	162,500	16,600	167,000
Total for Above County : (66 reports)		482,684	2,566,390	3,049,073	773,000	95,646	3,917,720	4,825	313,868	331	2,352,981	316,226	137
CLARKE	GRIFFITH ENERGY SERVICES INC - BERRYVILLE							618 E MAIN ST				NAICS Code	45431
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for GRIFFITH ENERGY SERVICES INC - BERR		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (3 reports)		0	0	0	0	0	0	0	0	0	0	0	0
COLONIAL HEIGHTS (CITY)	SUN CHEMICAL CORP							16000 CONTINENTAL BLVD				NAICS Code	32591
COPPER	N	11	10	21	0	0	21	0	0	0	0	0	0
Total for SUN CHEMICAL CORP		11	10	21	0	0	21	0	0	0	0	0	0
Total for Above County : (1 record)		11	10	21	0	0	21	0	0	0	0	0	0
COVINGTON (CITY)	MEADWESTVACO OF VIRGINIA COVINGTON OPERATIONS							104 E. RIVERSIDE STREET				NAICS Code	32213
ACETALDEHYDE	N	2	1,519	1,521	0	0	1,521	0	0	73,500	73,500	0	0
AMMONIA	N	0	0	0	0	0	0	0	0	745	745	0	0
BARIUM COMPOUNDS	N	0	2	2	0	0	2	0	0	0	0	0	0
CATECHOL	N	0	0	0	28	44	72	0	0	400	400	0	0
CHLORINE	N	10	480	490	0	0	490	0	0	86,000	86,000	0	0
CHLORINE DIOXIDE	N	5	3,900	3,905	0	0	3,905	0	0	460,000	460,000	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-18 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address		Fugitive Air	Stack Air	Total Air	Land	Water	Total On-Site Releases	Energy Recovery	Recycling	Treatment	Total On-Site Management	POTW	Total Other Off-Site Transfers **
Chemical Name	form A*	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)	(pounds)
CRESOL (MIXED ISOMERS)	N	0	0	0	0	0	0	0	0	2,235	2,235	0	0
FORMALDEHYDE	N	14	2,807	2,821	0	0	2,821	0	0	161,043	161,043	0	0
FORMIC ACID	N	0	18,408	18,408	0	0	18,408	0	0	901,983	901,983	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	124	4	128	0	0	128	0	0	198	198	0	0
MANGANESE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
METHANOL	N	0	56,396	56,396	0	0	56,396	0	0	2,983,063	2,983,063	0	0
NITRATE COMPOUNDS	N	0	0	0	69	0	69	0	0	0	0	0	0
PHENOL	N	0	0	0	0	0	0	0	0	1,217	1,217	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	230,000	230,000	0	0	230,000	0	0	270,000	270,000	0	0
VANADIUM COMPOUNDS	N	0	1	1	0	0	1	0	0	0	0	0	0
ZINC COMPOUNDS	N	0	12	12	0	0	12	0	0	0	0	0	0
Total for MEADWESTVACO OF VIRGINIA COVINGT		155	313,530	313,685	97	44	313,826	0	0	4,940,384	4,940,384	0	0
Total for Above County : (17 reports)		155	313,530	313,685	97	44	313,826	0	0	4,940,384	4,940,384	0	0
CULPEPER	CULPEPER WOOD PRESERVERS							15487 BRAGGS CORNER RD				NAICS Code	32111
COPPER COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for CULPEPER WOOD PRESERVERS		0	0	0	0	0	0	0	0	0	0	0	0
CULPEPER	MASCO CABINETRY LLC							641 MADDOX DR				NAICS Code	33711
TOLUENE	N	0	17,318	17,318	0	0	17,318	0	14,000	0	14,000	0	815
XYLENE (MIXED ISOMERS)	N	0	15,029	15,029	0	0	15,029	0	0	0	0	0	707
Total for MASCO CABINETRY LLC		0	32,347	32,347	0	0	32,347	0	14,000	0	14,000	0	1,522
CULPEPER	QUARLES PETROLEUM INC. CULPEPER BULK PLANT							15427 BRANDY RD				NAICS Code	42471
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
BENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-19 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
TOLUENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for QUARLES PETROLEUM INC. CULPEPER B		0	0	0	0	0	0	0	0	0	0	0	0
CULPEPER ROCHESTER WIRE & CABLE LLC								751 OLD BRANDY RD				NAICS Code 33149	
COPPER	N	0	0	0	0	1	1	0	0	0	0	5	159,742
Total for ROCHESTER WIRE & CABLE LLC		0	0	0	0	1	1	0	0	0	0	5	159,742
Total for Above County : (10 reports)		0	32,347	32,347	0	1	32,348	0	14,000	0	14,000	5	161,264
CUMBERLAND GEMINI-FARMVILLE								102 HAUSCHILD DR				NAICS Code 33995	
COPPER	N	0	1	1	0	0	1	0	0	0	0	0	10,559
Total for GEMINI-FARMVILLE		0	1	1	0	0	1	0	0	0	0	0	10,559
Total for Above County : (1 record)		0	1	1	0	0	1	0	0	0	0	0	10,559
DANVILLE (CITY) THE GOODYEAR TIRE & RUBBER CO.								1901 GOODYEAR BLVD				NAICS Code 32621	
COBALT COMPOUNDS	N	0	3	3	0	0	3	0	0	0	0	0	2,309
METHYL ISOBUTYL KETONE	N	0	30,226	30,226	0	0	30,226	0	0	0	0	0	0
ZINC COMPOUNDS	N	0	794	794	0	235	1,029	0	0	0	0	4,322	660,210
Total for THE GOODYEAR TIRE & RUBBER CO.		0	31,023	31,023	0	235	31,258	0	0	0	0	4,322	662,519
Total for Above County : (3 reports)		0	31,023	31,023	0	235	31,258	0	0	0	0	4,322	662,519
DINWIDDIE CHAPARRAL (VA) INC.								25801 HOFHEIMER WAY				NAICS Code 33111	
CHROMIUM COMPOUNDS (EXCEPT F	N	68	64	132	0	9	141	0	0	0	0	0	33,000
COPPER COMPOUNDS	N	48	92	140	0	38	178	0	0	0	0	1	43,000
MANGANESE COMPOUNDS	N	1,100	300	1,400	0	0	1,400	0	0	0	0	0	490,000
NICKEL COMPOUNDS	N	8	210	218	0	0	218	0	0	0	0	0	3,100
ZINC COMPOUNDS	N	5,800	11,000	16,800	0	9	16,809	0	0	0	0	8	5,300,000
Total for CHAPARRAL (VA) INC.		7,024	11,666	18,690	0	56	18,746	0	0	0	0	9	5,869,100

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-20 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
DINWIDDIE	TUBE CITY IMS							25805 HOFHEIMER WAY				NAICS Code	56292
MANGANESE COMPOUNDS	N	12	0	12	0	0	12	0	0	0	0	0	0
Total for TUBE CITY IMS		12	0	12	0	0	12	0	0	0	0	0	0
Total for Above County : (6 reports)		7,036	11,666	18,702	0	56	18,758	0	0	0	0	9	5,869,100
FAIRFAX	NEWINGTON CONCRETE PLANT							8413 TERMINAL RD				NAICS Code	32732
NITRATE COMPOUNDS	N	0	0	0	0	146	146	0	0	0	0	0	0
Total for NEWINGTON CONCRETE PLANT		0	0	0	0	146	146	0	0	0	0	0	0
FAIRFAX	QUARLES PETROLEUM INC NEWINGTON TERMINAL							8219 TERMINAL RD				NAICS Code	42471
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for QUARLES PETROLEUM INC NEWINGTON T		0	0	0	0	0	0	0	0	0	0	0	0
FAIRFAX	SHENANDOAH'S PRIDE							5325 PORT ROYAL RD				NAICS Code	31151
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	28,090	28,090
NITRIC ACID	N	0	0	0	0	0	0	0	0	20,819	20,819	0	0
Total for SHENANDOAH'S PRIDE		0	0	0	0	0	0	0	0	20,819	20,819	28,090	28,090
FAIRFAX	SICPA SECURINK CORP							8000 RESEARCH WAY				NAICS Code	32591
CERTAIN GLYCOL ETHERS	N	250	0	250	0	0	250	0	0	0	0	0	1,750
MANGANESE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
PHTHALIC ANHYDRIDE	Y	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE DIISOCYANATE (MIXED IS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for SICPA SECURINK CORP		250	0	250	0	0	250	0	0	0	0	0	1,750
FAIRFAX	SOUTHERN IRON WORKS INC.							6600 ELECTRONIC DR				NAICS Code	33231
MANGANESE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for SOUTHERN IRON WORKS INC.		0	0	0	0	0	0	0	0	0	0	0	0
FAIRFAX	VIRGINIA CONCRETE EDSALL ROAD PLANT							5412 INDUSTRIAL DR				NAICS Code	32732

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-21 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
NITRATE COMPOUNDS	N	0	0	0	0	150	150	0	0	0	0	0	0
Total for VIRGINIA CONCRETE EDSALL ROAD PLAN		0	0	0	0	150	150	0	0	0	0	0	0
Total for Above County : (10 reports)		250	0	250	0	296	546	0	0	20,819	20,819	28,090	29,840
FAUQUIER DOMINION REMINGTON POWER STATION								12025 LUCKY HILL ROAD				NAICS Code 22111	
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for Dominion Remington Power Station		0	0	0	0	0	0	0	0	0	0	0	0
FAUQUIER FIBERGLASS ENGINEERING CO								5019 AIRPORT RD				NAICS Code 32619	
STYRENE	N	8,952	0	8,952	0	0	8,952	0	0	0	0	0	0
Total for FIBERGLASS ENGINEERING CO		8,952	0	8,952	0	0	8,952	0	0	0	0	0	0
FAUQUIER OLD DOMINION ELECTRIC CO-OP MARSH RUN GENERATION FACI								12109 LUCKY HILL RD				NAICS Code 22111	
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for OLD DOMINION ELECTRIC CO-OP MARSH		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (7 reports)		8,952	0	8,952	0	0	8,952	0	0	0	0	0	0
FLUVANNA DOMINION RESOURCES INC BREMO POWER STATION								1038 BREMO RD				NAICS Code 22111	
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
BARIUM COMPOUNDS	N	0	0	0	42,200	12,900	55,100	0	0	0	0	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	424,000	424,000	0	0	424,000	0	0	0	0	0	0
HYDROGEN FLUORIDE	N	0	53,000	53,000	0	0	53,000	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-22 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
SULFURIC ACID - (1994 AND AFTER "	N	0	40,100	40,100	0	0	40,100	0	0	41,700	41,700	0	0
VANADIUM COMPOUNDS	N	0	0	0	21,300	0	21,300	0	0	0	0	0	0
Total for DOMINION RESOURCES INC BREMO POW		0	517,100	517,100	63,500	12,900	593,500	0	0	41,700	41,700	0	0
Total for Above County : (8 reports)		0	517,100	517,100	63,500	12,900	593,500	0	0	41,700	41,700	0	0
FRANKLIN TSO OF VIRGINIA								1050 N MAIN ST				NAICS Code 32111	
COPPER	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for TSO OF VIRGINIA		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (1 record)		0	0	0	0	0	0	0	0	0	0	0	0
FREDERICK FISHER SCIENTIFIC INTERNATIONAL MTN DIAGNOSTICS PLANT								8365 VALLEY PIKE				NAICS Code 32541	
CERTAIN GLYCOL ETHERS	N	0	5	5	0	0	5	0	0	0	0	0	5,826
Total for FISHER SCIENTIFIC INTERNATIONAL MTN		0	5	5	0	0	5	0	0	0	0	0	5,826
FREDERICK PACTIV CORP								172 PACTIV WAY				NAICS Code 32614	
METHANOL	N	21,153	0	21,153	0	0	21,153	0	0	0	0	0	27
Total for PACTIV CORP		21,153	0	21,153	0	0	21,153	0	0	0	0	0	27
FREDERICK QG, LLC WINCHESTER VIRGINIA								160 CENTURY LN STONEWALL INDUSTRIAL PARK				NAICS Code 32311	
CERTAIN GLYCOL ETHERS	N	7,745	361	8,107	0	0	8,107	0	0	0	0	0	0
Total for QG, LLC WINCHESTER VIRGINIA		7,745	361	8,107	0	0	8,107	0	0	0	0	0	0
FREDERICK QUARLES PETROLEUM INC. WINCHESTER BULK PLANT								779 SMITHFIELD AVE				NAICS Code 42471	
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
BENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-23 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address		Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Chemical Name	form A*												
Total for QUARLES PETROLEUM INC. WINCHESTER		0	0	0	0	0	0	0	0	0	0	0	0
FREDERICK	TRELLEBORG ENGINEERED PRODUCTS INC.							148-1 LENOIR DR				NAICS Code	32619
STYRENE	N	5,460	0	5,460	0	0	5,460	0	0	0	0	0	6,475
Total for TRELLEBORG ENGINEERED PRODUCTS IN		5,460	0	5,460	0	0	5,460	0	0	0	0	0	6,475
FREDERICK	TREX - WINCHESTER MANUFACTURING							3229 SHAWNEE DRIVE				NAICS Code	32619
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for Trex - Winchester Manufacturing		0	0	0	0	0	0	0	0	0	0	0	0
FREDERICK	VALLEY PROTEINS INC. - WINCHESTER FACILITY							1635 INDIAN HOLLOW RD				NAICS Code	31161
CHLORINE	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for VALLEY PROTEINS INC. - WINCHESTER FA		0	0	0	0	0	0	0	0	0	0	0	0
FREDERICK	VIRGINIA HARBOR SERVICES, INC.							3470 MARTINSBURG PIKE				NAICS Code	32619
DIISOCYANATES	N	5	5	10	0	0	10	0	0	0	0	0	5,516
TOLUENE	N	5	5	10	0	0	10	0	0	0	0	0	2,758
TOLUENE DIISOCYANATE (MIXED IS	N	5	5	10	0	0	10	0	0	0	0	0	1,379
Total for Virginia Harbor Services, INC.		15	15	30	0	0	30	0	0	0	0	0	9,653
Total for Above County : (15 reports)		34,373	381	34,755	0	0	34,755	0	0	0	0	0	21,981
FREDERICKSBURG (CITY)	QUARLES PETROLEUM INC FREDERICKSBURG TERMINAL/BULK P							3300 BEULAH SALISBURY RD				NAICS Code	42471
1,2,4-TRIMETHYLBENZENE	N	0	7	7	0	0	7	0	0	0	0	0	0
BENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for QUARLES PETROLEUM INC FREDERICKSB		0	7	7	0	0	7	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-24 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for Above County : (6 reports)		0	7	7	0	0	7	0	0	0	0	0	0
GALAX (CITY) CONSOLIDATED GLASS & MIRROR								305 LINEBERRY RD				NAICS Code 32721	
ETHYLBENZENE	N	0	39	39	0	0	39	0	0	9,832	9,832	0	1,064
N-BUTYL ALCOHOL	N	0	9,809	9,809	0	0	9,809	0	0	0	0	0	329
XYLENE (MIXED ISOMERS)	N	0	137	137	0	0	137	0	0	34,144	34,144	0	3,976
Total for CONSOLIDATED GLASS & MIRROR		0	9,985	9,985	0	0	9,985	0	0	43,976	43,976	0	5,369
Total for Above County : (3 reports)		0	9,985	9,985	0	0	9,985	0	0	43,976	43,976	0	5,369
GILES AMERICAN ELECTRIC POWER GLEN LYN PLANT								RTE 460				NAICS Code 22111	
HYDROCHLORIC ACID (1995 AND AFT	N	0	180,000	180,000	0	0	180,000	0	0	0	0	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	10,000	10,000	0	0	10,000	0	0	31,000	31,000	0	0
Total for AMERICAN ELECTRIC POWER GLEN LYN		0	190,000	190,000	0	0	190,000	0	0	31,000	31,000	0	0
GILES CELANESE ACETATE LLC - CELCO PLANT								3520 VIRGINIA AVE				NAICS Code 32522	
1,3-BUTADIENE	N	250	250	500	0	0	500	28,769	0	0	28,769	0	0
ACETAMIDE	N	0	0	0	0	250	250	0	0	160,236	160,236	0	0
ACETONITRILE	N	1,342	40	1,382	0	20	1,402	26,050	0	19,111	45,161	0	0
AMMONIA	N	250	7,077	7,327	0	1,461	8,788	0	0	17,552	17,552	0	0
BARIUM COMPOUNDS	N	0	247	247	30,198	363	30,808	0	0	0	0	0	5,559
CHLORINE	Y	0	0	0	0	0	0	0	0	0	0	0	0
CYCLOHEXANE	N	112,328	7,037	119,365	0	0	119,365	189,873	0	0	189,873	0	0
DICHLOROMETHANE	N	45,699	0	45,699	0	0	45,699	0	0	0	0	0	1
ETHYLENE	N	1,073	709	1,782	0	0	1,782	680,652	0	0	680,652	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	164,821	164,821	0	0	164,821	0	0	0	0	0	0
NITRATE COMPOUNDS	N	0	0	0	0	66,196	66,196	0	0	0	0	0	0
SULFURIC ACID - (1994 AND AFTER "	N	5	148,525	148,530	0	0	148,530	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-25 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
VANADIUM COMPOUNDS	N	0	114	114	14,071	20	14,205	0	0	0	0	0	2,563
ZINC COMPOUNDS	N	0	168	168	14,131	0	14,299	0	0	0	0	0	2,570
Total for CELANESE ACETATE LLC - CELCO P LANT		160,947	328,988	489,935	58,400	68,310	616,645	925,344	0	196,899	1,122,243	0	10,693
GILES								CHEMICAL LIME CO OF VIRGINIA INC KIMBALLTON AREA 1				2093 BIG STONY CREEK RD	
HYDROCHLORIC ACID (1995 AND AFT	N	0	60,533	60,533	0	0	60,533	0	0	0	0	0	0
VANADIUM COMPOUNDS	N	2	1	3	2,029	0	2,032	0	0	0	0	0	0
Total for CHEMICAL LIME CO OF VIRGINIA INC KIMB		2	60,534	60,536	2,029	0	62,565	0	0	0	0	0	0
Total for Above County : (18 reports)		160,949	579,522	740,471	60,429	68,310	869,210	925,344	0	227,899	1,153,243	0	10,693
GREENSVILLE								BOAR'S HEAD PROVISIONS CO INC				2230 WYATTS MILL RD	
AMMONIA	N	0	8,900	8,900	0	0	8,900	0	0	0	0	0	0
Total for BOAR'S HEAD PROVISIONS CO INC		0	8,900	8,900	0	0	8,900	0	0	0	0	0	0
GREENSVILLE								CREATIVE PLAYTHINGS LTD.				859 INDUSTRIAL DR	
COPPER COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	1,131
Total for CREATIVE PLAYTHINGS LTD.		0	0	0	0	0	0	0	0	0	0	0	1,131
GREENSVILLE								EMPORIA FOUNDRY INC.				620 REESE ST	
MANGANESE	N	0	5	5	0	0	5	0	0	0	0	0	0
Total for EMPORIA FOUNDRY INC.		0	5	5	0	0	5	0	0	0	0	0	0
GREENSVILLE								GEORGIA PACIFIC WOOD PRODUCTS LLC EMPORIA PLYWOOD				634 DAVIS ST	
DIISOCYANATES	N	0	0	0	0	0	0	0	0	0	0	0	0
METHANOL	N	34,000	10,000	44,000	0	0	44,000	0	0	10,000	10,000	0	0
Total for GEORGIA PACIFIC WOOD PRODUCTS LL		34,000	10,000	44,000	0	0	44,000	0	0	10,000	10,000	0	0
GREENSVILLE								GEORGIA-PACIFIC WOOD PRODUCTS LLC - SKIPPERS OSB				234 FOREST RD	
METHANOL	N	0	15,000	15,000	0	0	15,000	0	0	50,000	50,000	0	0
Total for GEORGIA-PACIFIC WOOD PRODUCTS LLC		0	15,000	15,000	0	0	15,000	0	0	50,000	50,000	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-26 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for Above County : (6 reports)		34,000	33,905	67,905	0	0	67,905	0	0	60,000	60,000	0	1,131
HALIFAX	ABB INC							2135 PHILPOTT RD				NAICS Code	33531
CHROMIUM	N	1	0	1	0	0	1	0	0	0	0	0	85,411
COPPER	N	0	0	0	0	0	0	0	0	0	0	5	749,890
MANGANESE	N	327	0	327	0	0	327	0	0	0	0	0	70,062
NICKEL	N	1	0	1	0	0	1	0	0	0	0	0	60,138
Total for ABB INC		329	0	329	0	0	329	0	0	0	0	5	965,501
HALIFAX	AQUATIC CO							1100 INDUSTRIAL PARK RD HALIFAX INDUSTRIAL				NAICS Code	32619
STYRENE	N	5,050	76,910	81,960	0	0	81,960	0	0	1,555	1,555	0	2,612
Total for Aquatic Co		5,050	76,910	81,960	0	0	81,960	0	0	1,555	1,555	0	2,612
HALIFAX	BOHLER UDDEHOLM SPECIALTY METALS INC							2306 EASTOVER DR				NAICS Code	33122
CHROMIUM	N	0	0	0	0	0	0	0	0	0	0	0	10,160
COBALT	N	0	0	0	0	0	0	0	0	0	0	0	3,041
METHANOL	N	5	5	10	0	0	10	0	0	0	0	0	0
Total for BOHLER UDDEHOLM SPECIALTY METALS		5	5	10	0	0	10	0	0	0	0	0	13,201
HALIFAX	DOMINION CLOVER POWER STATION							RTE 92				NAICS Code	22111
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
ARSENIC COMPOUNDS	N	0	18	18	36,500	91	36,609	0	0	0	0	0	0
BARIUM COMPOUNDS	N	0	0	0	345,000	721	345,721	0	0	0	0	0	0
CHROMIUM COMPOUNDS (EXCEPT F	N	0	354	354	62,500	141	62,995	0	0	0	0	0	0
COBALT COMPOUNDS	N	0	9	9	22,000	23	22,032	0	0	0	0	0	0
COPPER COMPOUNDS	N	0	0	0	70,600	51	70,651	0	0	0	0	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	18,700	18,700	0	0	18,700	0	0	2,640,000	2,640,000	0	0
HYDROGEN CYANIDE	N	0	42,500	42,500	0	0	42,500	0	0	0	0	0	0
HYDROGEN FLUORIDE	N	0	9,370	9,370	0	0	9,370	0	0	322,000	322,000	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-27 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
MANGANESE COMPOUNDS	N	0	697	697	100,000	2,240	102,937	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NICKEL COMPOUNDS	N	0	364	364	62,200	54	62,618	0	0	0	0	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	319,000	319,000	0	0	319,000	0	0	710,000	710,000	0	0
VANADIUM COMPOUNDS	N	0	0	0	133,000	0	133,000	0	0	0	0	0	0
ZINC COMPOUNDS	N	0	0	0	81,500	423	81,923	0	0	0	0	0	0
Total for DOMINION CLOVER POWER STATION		0	391,012	391,012	913,300	3,744	1,308,056	0	0	3,672,000	3,672,000	0	0
HALIFAX								1000 CHANEY LN				NAICS Code	32121
DIISOCYANATES	N	0	43	43	0	0	43	0	0	0	0	0	0
FORMALDEHYDE	N	66	9,454	9,520	5	0	9,525	40	0	60,710	60,750	0	5
METHANOL	N	346	21,332	21,678	0	0	21,678	0	0	56,222	56,222	0	0
PHENOL	N	440	2,652	3,092	0	0	3,092	40	0	32,472	32,512	0	0
Total for HUBER ENGINEERED WOODS LLC		852	33,481	34,333	5	0	34,338	80	0	149,404	149,484	0	5
Total for Above County : (28 reports)		6,236	501,408	507,644	913,305	3,744	1,424,693	80	0	3,822,959	3,823,039	5	981,319
HAMPTON (CITY)								401 INDUSTRY DR				NAICS Code	32551
ETHYLENE GLYCOL	N	5	5	10	0	0	10	0	0	0	0	28	28
XYLENE (MIXED ISOMERS)	N	93	50	143	0	0	143	0	6	0	6	0	0
Total for BENNETTE PAINT MANUFACTURING CO IN		98	55	153	0	0	153	0	6	0	6	28	28
HAMPTON (CITY)								2400 ALUMINUM AVE				NAICS Code	33131
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	5,256
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	44	44
NITRIC ACID	N	5	5	10	0	0	10	0	0	51,600	51,600	0	0
Total for CATALINA CYLINDERS CLIFF IMPACT DIV		5	5	10	0	0	10	0	0	51,600	51,600	44	5,300
HAMPTON (CITY)								5604 CITY LINE RD				NAICS Code	32111

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-28 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
COPPER COMPOUNDS	N	0	0	0	0	10	10	0	2,400	0	2,400	0	0
Total for CWPI		0	0	0	0	10	10	0	2,400	0	2,400	0	0
HAMPTON (CITY)		HOWMET CASTINGS & SERVICES INC						ONE HOWMET DR				NAICS Code	33152
4,4'-ISOPROPYLIDENEDIPHENOL	N	21	21	41	0	0	41	0	0	1,010	1,010	52	101,989
ALUMINUM (FUME OR DUST)	N	0	136	136	0	0	136	0	0	0	0	0	0
CHROMIUM	N	0	22	22	0	0	22	0	0	0	0	84	15,893
COBALT	N	0	10	10	0	0	10	0	0	0	0	108	14,040
HYDROGEN FLUORIDE	N	0	149	149	0	0	149	0	0	7,319	7,319	0	64,099
MANGANESE	N	0	1	1	0	0	1	0	0	0	0	14	987
NICKEL	N	0	82	82	0	0	82	0	0	0	0	411	78,904
NITRIC ACID	N	0	1,006	1,006	0	0	1,006	0	0	547	547	0	64,533
Total for HOWMET CASTINGS & SERVICES INC		21	1,427	1,448	0	0	1,448	0	0	8,876	8,876	669	340,445
HAMPTON (CITY)		U.S. DOD, USAF, JOINT BASE LANGLEY EUSTIS - LANGLEY AFB						633 CES/CEAN 37 SWEENEY BLVD				NAICS Code	92811
NAPHTHALENE	N	0	4	4	0	0	4	0	0	0	0	0	20
Total for U.S. DoD, USAF, JOINT BASE LANGLEY EU		0	4	4	0	0	4	0	0	0	0	0	20
Total for Above County : (15 reports)		124	1,491	1,615	0	10	1,625	0	2,406	60,476	62,882	741	345,793
HANOVER		BEAR ISLAND LLC DIV						10026 OLD RIDGE RD				NAICS Code	32212
HYDROCHLORIC ACID (1995 AND AFT	N	0	46,200	46,200	0	0	46,200	0	0	0	0	0	0
METHANOL	N	2,000	24,820	26,820	0	0	26,820	0	0	0	0	0	0
Total for BEAR ISLAND LLC DIV		2,000	71,020	73,020	0	0	73,020	0	0	0	0	0	0
HANOVER		CHEMTREAT, INC						10040 LICKINGHOLE RD				NAICS Code	32599
SODIUM NITRITE	N	0	0	0	0	0	0	0	0	0	0	0	0
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for CHEMTREAT, INC		0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBTchemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A , no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-29 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
HANOVER	DOSWELL LIMITED PARTNERSHIP							10098 OLD RIDGE RD				NAICS Code 22111	
AMMONIA	N	5	210,498	210,503	0	0	210,503	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for DOSWELL LIMITED PARTNERSHIP		5	210,498	210,503	0	0	210,503	0	0	0	0	0	0
HANOVER	PUGH LUBRICANTS ASHLAND							10992 LEADBETTER RD				NAICS Code 42471	
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for PUGH LUBRICANTS ASHLAND		0	0	0	0	0	0	0	0	0	0	0	0
HANOVER	SOUTH ATLANTIC GALVANIZING LLC							11022 LEWISTOWN RD				NAICS Code 33281	
ZINC COMPOUNDS	N	4,124	0	4,124	0	68	4,192	0	0	0	0	0	206,233
Total for SOUTH ATLANTIC GALVANIZING LLC		4,124	0	4,124	0	68	4,192	0	0	0	0	0	206,233
HANOVER	TYSON FOODS INC. - PROCESSING FACILITY							13264 MOUNTAIN RD				NAICS Code 31161	
AMMONIA	N	11,680	0	11,680	0	24	11,704	0	0	13,587	13,587	0	0
NITRATE COMPOUNDS	N	0	0	0	0	64,971	64,971	0	0	350,281	350,281	0	0
Total for TYSON FOODS INC. - PROCESSING FACILI		11,680	0	11,680	0	64,995	76,675	0	0	363,868	363,868	0	0
Total for Above County : (12 reports)		17,809	281,518	299,327	0	65,063	364,390	0	0	363,868	363,868	0	206,233
HARRISONBURG (CITY)	GEORGE'S FOODS LLC FEED MILL							61 KRATZER RD				NAICS Code 31111	
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
MANGANESE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for GEORGE'S FOODS LLC FEED MILL		0	0	0	0	0	0	0	0	0	0	0	0
HARRISONBURG (CITY)	GILMER INDUSTRIES INC							560 STONE SPRING RD				NAICS Code 32561	
CERTAIN GLYCOL ETHERS	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-30 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
DIETHANOLAMINE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NITRIC ACID	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for GILMER INDUSTRIES INC		0	0	0	0	0	0	0	0	0	0	0	0
HARRISONBURG (CITY)	PILGRIM'S PRIDE CORP HARRISONBURG FEEDMILL							590 MT. CLINTON PIKE				NAICS Code	31111
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
MANGANESE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for PILGRIM'S PRIDE CORP HARRISONBURG F		0	0	0	0	0	0	0	0	0	0	0	0
HARRISONBURG (CITY)	QUARLES PETROLEUM INC HARRISONBURG BULK PLANT							1006 W MARKET ST				NAICS Code	42471
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for QUARLES PETROLEUM INC HARRISONBU		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (13 reports)		0	0	0	0	0	0	0	0	0	0	0	0
HENRICO	CADMUS SPECIALTY PUBLICATIONS							2901 BYRDHILL RD				NAICS Code	32311
ETHYLENE GLYCOL	N	1,815	78	1,893	0	0	1,893	0	0	3,903	3,903	7,029	7,029
Total for CADMUS SPECIALTY PUBLICATIONS		1,815	78	1,893	0	0	1,893	0	0	3,903	3,903	7,029	7,029
HENRICO	ENNIS PAINT-RICHMOND							4400 VAWTER AVE				NAICS Code	32551
METHANOL	N	0	2,686	2,686	0	0	2,686	0	0	0	0	0	0
Total for ENNIS PAINT-RICHMOND		0	2,686	2,686	0	0	2,686	0	0	0	0	0	0
HENRICO	JOHNS MANVILLE CORP HAMILTON PLANT							7400 RANCO RD				NAICS Code	32222
ANTIMONY COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	6,316
DECABROMODIPHENYL OXIDE	N	0	0	0	0	0	0	0	0	0	0	0	2,093

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-31 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for JOHNS MANVILLE CORP HAMILTON PLANT		0	0	0	0	0	0	0	0	0	0	0	8,409
HENRICO QG, LLC								7400 IMPALA DR				NAICS Code	32311
COPPER	N	0	0	0	0	0	0	0	0	0	0	2	2,979
TOLUENE	N	84,548	338,192	422,740	0	0	422,740	0	12,066,387	0	12,066,387	0	29,820
ZINC COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for QG, LLC		84,548	338,192	422,740	0	0	422,740	0	12,066,387	0	12,066,387	2	32,799
HENRICO SOUTHERN GRAPHIC SYSTEMS RICHMOND								5301 LEWIS RD				NAICS Code	32312
COPPER COMPOUNDS	N	0	206	206	0	0	206	0	0	0	0	1	40,273
Total for SOUTHERN GRAPHIC SYSTEMS RICHMOND		0	206	206	0	0	206	0	0	0	0	1	40,273
HENRICO STANDEX ENGRAVING LLC								5901 LEWIS RD				NAICS Code	32311
COPPER	N	1	1	2	0	0	2	0	0	0	0	22	461
NITRIC ACID	N	0	206	206	0	0	206	0	0	3,907	3,907	0	23,218
Total for STANDEX ENGRAVING LLC		1	207	208	0	0	208	0	0	3,907	3,907	22	23,679
Total for Above County : (10 reports)		86,364	341,369	427,732	0	0	427,732	0	12,066,387	7,810	12,074,197	7,054	112,189
HENRY BASSETT PLANT 11								PATRIOT CENTRE AT BEAVER CREEK				NAICS Code	33712
NITRATE COMPOUNDS	N	0	212	212	0	0	212	0	0	0	0	0	3,206
XYLENE (MIXED ISOMERS)	N	0	13,123	13,123	0	0	13,123	0	0	0	0	0	1,984
Total for BASSETT PLANT 11		0	13,335	13,335	0	0	13,335	0	0	0	0	0	5,190
HENRY COMMONWEALTH LAMINATING & COATING INC								345 BEAVER CREEK DR				NAICS Code	32611
ETHYLENE GLYCOL	N	750	4,850	5,600	0	0	5,600	0	1,179,679	5,580	1,185,259	61,817	147,351
N-HEXANE	N	250	643	893	0	0	893	0	0	63,678	63,678	0	2,479
N-METHYL-2-PYRROLIDONE	N	250	20	270	0	0	270	0	0	41,732	41,732	67,252	422,054
TOLUENE	N	250	13,727	13,977	0	0	13,977	0	0	607,120	607,120	0	162,215
Total for COMMONWEALTH LAMINATING & COATIN		1,500	19,240	20,740	0	0	20,740	0	1,179,679	718,110	1,897,789	129,069	734,099

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-32 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
HENRY	CPFILMS - PLANT II							4129 THE GREAT RD				NAICS Code	32613
ACRYLIC ACID	N	64	1,300	1,364	0	0	1,364	0	0	25,000	25,000	0	0
ETHYLENE GLYCOL	N	6,600	1,700	8,300	0	0	8,300	0	0	800,000	800,000	46,000	191,000
N-HEXANE	N	17	350	367	0	0	367	0	0	30,000	30,000	0	0
N-METHYL-2-PYRROLIDONE	N	410	180	590	0	0	590	0	0	1,100,000	1,100,000	36,000	727,700
TOLUENE	N	420	8,400	8,820	0	0	8,820	0	0	330,000	330,000	0	41,000
Total for CPFILMS - PLANT II		7,511	11,930	19,441	0	0	19,441	0	0	2,285,000	2,285,000	82,000	959,700
HENRY	CPFILMS INC. - PLANT 1							4210 THE GREAT RD				NAICS Code	32613
TOLUENE	N	28	560	588	0	0	588	0	0	51,000	51,000	0	65,000
Total for CPFILMS INC. - PLANT 1		28	560	588	0	0	588	0	0	51,000	51,000	0	65,000
HENRY	CPFILMS INC.-AXTON FACILITY							47 BRENDA DR				NAICS Code	32613
ETHYLENE GLYCOL	N	61,000	30,000	91,000	0	0	91,000	0	0	0	0	0	130,000
N-METHYL-2-PYRROLIDONE	N	33,000	2,300	35,300	0	0	35,300	0	0	0	0	0	270,000
Total for CPFILMS INC.-AXTON FACILITY		94,000	32,300	126,300	0	0	126,300	0	0	0	0	0	400,000
HENRY	MASTERBRAND CABINETS MARTINSVILLE VA							220 MEHLER LN				NAICS Code	33711
N-BUTYL ALCOHOL	N	0	15,600	15,600	0	0	15,600	0	0	0	0	0	1,559
TOLUENE	N	0	14,240	14,240	0	0	14,240	0	0	0	0	0	1,420
Total for MASTERBRAND CABINETS MARTINSVILLE		0	29,840	29,840	0	0	29,840	0	0	0	0	0	2,979
HENRY	MEHLER ENGINEERED PRODUCTS							175 MEHLER LN				NAICS Code	31499
DIISOCYANATES	N	0	0	0	0	0	0	0	0	0	0	0	260
TOLUENE	N	310	8	318	0	0	318	787,080	0	0	787,080	0	4,772
XYLENE (MIXED ISOMERS)	N	5	1	6	0	0	6	15,597	0	0	15,597	0	49
Total for MEHLER ENGINEERED PRODUCTS		315	9	324	0	0	324	802,677	0	0	802,677	0	5,081
HENRY	NATIONWIDE HOMES INC.							1100 RIVES RD				NAICS Code	32199
DIISOCYANATES	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-33 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for NATIONWIDE HOMES INC.		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (20 reports)		103,354	107,214	210,568	0	0	210,568	802,677	1,179,679	3,054,110	5,036,466	211,069	2,172,049
HOPEWELL (CITY) EVONIK GOLDSCHMIDT CORP								914 E RANDOLPH RD				NAICS Code 32561	
ACRYLIC ACID	N	0	850	850	0	0	850	0	0	0	0	143	6,412
ALLYL ALCOHOL	N	0	100	100	0	0	100	0	0	2,009	2,009	0	0
CHLOROACETIC ACID	N	0	236	236	0	0	236	0	0	4,720	4,720	0	0
ETHYLENE GLYCOL	N	0	996	996	0	0	996	0	0	0	0	132,320	132,320
ETHYLENE OXIDE	N	0	14	14	0	0	14	0	0	14,348	14,348	0	0
PROPYLENE OXIDE	N	0	7	7	0	0	7	0	0	7,174	7,174	0	0
XYLENE (MIXED ISOMERS)	N	0	0	0	0	0	0	0	0	0	0	0	1,173
Total for EVONIK GOLDSCHMIDT CORP		0	2,203	2,203	0	0	2,203	0	0	28,250	28,250	132,463	139,905
HOPEWELL (CITY) HERCULES INCORPORATED								1111 HERCULES RD				NAICS Code 32519	
CERTAIN GLYCOL ETHERS	N	5	0	5	0	0	5	0	0	0	0	260,224	260,224
CHLOROACETIC ACID	N	250	5	255	0	0	255	0	0	0	0	0	0
CHLOROETHANE	N	82,306	2,153	84,459	0	0	84,459	0	94,041	0	94,041	0	30
ETHYLENE	N	5,488	69,629	75,117	0	0	75,117	0	0	0	0	0	0
ETHYLENE GLYCOL	N	250	0	250	0	0	250	0	0	0	0	2,104,002	2,103,602
ETHYLENE OXIDE	N	1,080	250	1,330	0	0	1,330	0	0	72	72	160	160
METHANOL	N	239,363	2,654	242,017	0	0	242,017	0	139,519,243	0	139,519,243	467,928	469,128
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	5,386,629	5,386,629
NITRIC ACID	N	2,350	250	2,600	0	0	2,600	0	0	0	0	0	0
PROPYLENE OXIDE	N	2,298	131	2,429	0	0	2,429	0	0	70	70	234	234
TERT-BUTYL ALCOHOL	N	89,616	4,717	94,333	0	0	94,333	0	133,880,900	0	133,880,900	317,090	317,114
Total for HERCULES INCORPORATED		423,006	79,789	502,795	0	0	502,795	0	273,494,184	142	273,494,326	8,536,267	8,537,121
HOPEWELL (CITY) HONEYWELL INTERNATIONAL INC HOPEWELL PLANT								905 E RANDOLPH RD				NAICS Code 32519	

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-34 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ACETALDEHYDE	N	3,679	650	4,329	0	0	4,329	0	0	920,000	920,000	4,000	4,000
AMMONIA	N	34,000	3,400,000	3,434,000	0	60,400	3,494,400	0	0	0	0	240,000	240,000
BENZENE	N	1,500	7,700	9,200	0	140	9,340	0	74,000	170,000	244,000	360	399
CHLORINE	N	735	40	775	0	0	775	0	0	12,000	12,000	0	0
CHROMIUM COMPOUNDS (EXCEPT F	N	0	0	0	0	697	697	0	0	0	0	280	0
COPPER COMPOUNDS	N	0	0	0	0	3,074	3,074	0	0	0	0	280	0
CYCLOHEXANOL	N	4,300	3,200	7,500	0	59,000	66,500	0	0	0	0	38,000	38,000
ETHYLENE GLYCOL	N	5	0	5	0	0	5	0	0	0	0	22,000	22,000
HYDROCHLORIC ACID (1995 AND AFT	N	3	70	73	0	0	73	0	4,300	890	5,190	0	0
ISOBUTYRALDEHYDE	N	170	0	170	0	0	170	0	0	710	710	0	0
METHANOL	N	300	31	331	0	0	331	1,100,000	0	0	1,100,000	8,100	8,540
METHYL ISOBUTYL KETONE	N	1,300	0	1,300	0	0	1,300	0	0	1,700	1,700	0	0
N-HEXANE	N	5,800	110	5,910	0	0	5,910	0	0	500,000	500,000	1,900	189,900
NICKEL COMPOUNDS	N	0	0	0	0	891	891	0	0	0	0	280	2,080
NITRATE COMPOUNDS	N	0	6,000	6,000	0	110,900	116,900	0	0	0	0	860,000	860,000
PHENOL	N	17,000	23,000	40,000	1,400	190	41,590	0	0	0	0	19,000	19,670
SULFURIC ACID - (1994 AND AFTER "	N	250	27,000	27,250	0	0	27,250	0	27,000	0	27,000	0	0
TOLUENE	N	4,400	9,500	13,900	0	4,800	18,700	0	66,000	210,000	276,000	100	1,628
VANADIUM COMPOUNDS	N	0	0	0	0	1,748	1,748	0	0	0	0	200	0
ZINC COMPOUNDS	N	0	0	0	0	10,430	10,430	0	0	0	0	3,200	0
Total for HONEYWELL INTERNATIONAL INC HOPEW		73,442	3,477,301	3,550,743	1,400	252,270	3,804,413	1,100,000	171,300	1,815,300	3,086,600	1,197,700	1,386,217
HOPEWELL (CITY)		HOPEWELL POWER STATION						107 TERMINAL ST				NAICS Code 22111	
AMMONIA	N	0	4,850	4,850	0	35	4,885	0	0	0	0	0	0
Total for HOPEWELL POWER STATION		0	4,850	4,850	0	35	4,885	0	0	0	0	0	0
HOPEWELL (CITY)		JAMES RIVER COGENERATION CO INC						912 E RANDOLPH RD				NAICS Code 22111	

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-35 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
HYDROCHLORIC ACID (1995 AND AFT	N	0	230,000	230,000	0	0	230,000	0	0	390,000	390,000	0	0
Total for JAMES RIVER COGENERATION CO INC		0	230,000	230,000	0	0	230,000	0	0	390,000	390,000	0	0
HOPEWELL (CITY)	ROCKTENN CP, LLC							910 INDUSTRIAL ST				NAICS Code	32213
ACETALDEHYDE	N	0	7,187	7,187	0	0	7,187	23,532	0	8,983	32,515	70,380	64,750
AMMONIA	N	0	65,285	65,285	0	0	65,285	0	0	0	0	7,889	0
BARIUM COMPOUNDS	N	0	478	478	16,544	0	17,022	0	0	0	0	296	26,936
CATECHOL	N	0	0	0	0	0	0	309,050	0	0	309,050	609	0
FORMALDEHYDE	N	0	6,714	6,714	0	0	6,714	14,662	0	2,119	16,781	7,312	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	98,735	98,735	0	0	98,735	0	0	0	0	0	0
MANGANESE COMPOUNDS	N	0	177	177	42,536	0	42,713	0	0	0	0	30,555	94,724
METHANOL	N	0	119,361	119,361	0	0	119,361	256,953	0	29,434	286,387	4,940,324	4,792,114
NAPHTHALENE	N	0	291	291	0	0	291	0	0	0	0	26	350
PHENOL	N	0	9,260	9,260	0	0	9,260	54,702	0	2,237	56,939	4,937	0
SULFURIC ACID - (1994 AND AFTER "	N	0	23,920	23,920	0	0	23,920	0	0	0	0	0	0
Total for RockTenn CP, LLC		0	331,408	331,408	59,080	0	390,488	658,899	0	42,773	701,672	5,062,328	4,978,874
Total for Above County : (51 reports)		496,448	4,125,551	4,621,999	60,480	252,305	4,934,784	1,758,899	273,665,484	2,276,465	277,700,848	14,928,758	15,042,117
ISLE OF WIGHT	GWALTNEY OF SMITHFIELD LTD (SMITHFIELD NORTH)							601 N CHURCH ST				NAICS Code	31161
AMMONIA	N	23,120	133	23,253	0	0	23,253	0	0	55,485	55,485	1,325	1,325
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	987,410	987,410	843,852	843,852
SODIUM NITRITE	N	0	0	0	0	0	0	0	0	44,600	44,600	0	0
Total for GWALTNEY OF SMITHFIELD LTD (Smithfield		23,120	133	23,253	0	0	23,253	0	0	1,087,495	1,087,495	845,177	845,177
ISLE OF WIGHT	SMITHFIELD PACKING CO							501 N CHURCH ST				NAICS Code	31161
AMMONIA	N	0	1,094	1,094	0	0	1,094	0	0	22,779	22,779	3,477	3,477
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for SMITHFIELD PACKING CO		0	1,094	1,094	0	0	1,094	0	0	22,779	22,779	3,477	3,477

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBTchemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-36 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for Above County : (5 reports)		23,120	1,227	24,347	0	0	24,347	0	0	1,110,274	1,110,274	848,654	848,654
JAMES CITY	ANHEUSER-BUSCH INC							7801 POCAHONTAS TRAIL				NAICS Code	31212
AMMONIA	N	7,265	78	7,343	0	0	7,343	0	0	0	0	1,592	1,622
Total for ANHEUSER-BUSCH INC		7,265	78	7,343	0	0	7,343	0	0	0	0	1,592	1,622
JAMES CITY	BALL METAL BEVERAGE CONTAINER CORP							8935 POCAHONTAS TRAIL JAMES RIVER COMMUNITY				NAICS Code	33243
CERTAIN GLYCOLETHERS	N	56,000	290,000	346,000	0	0	346,000	0	0	0	0	0	380
N-BUTYL ALCOHOL	N	22,000	110,000	132,000	0	0	132,000	0	0	0	0	0	156
SULFURIC ACID - (1994 AND AFTER "	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for BALL METAL BEVERAGE CONTAINER COR		78,000	400,000	478,000	0	0	478,000	0	0	0	0	0	536
Total for Above County : (4 reports)		85,265	400,078	485,343	0	0	485,343	0	0	0	0	1,592	2,158
KING GEORGE	BIRCHWOOD POWER FACILITY							10900 BIRCHWOOD DR				NAICS Code	22111
AMMONIA	N	92	191	283	0	0	283	0	0	293,895	293,895	0	1,333
BARIUM COMPOUNDS	N	0	11	12	0	0	12	0	0	0	0	0	21,292
CHROMIUM COMPOUNDS (EXCEPT F	N	0	12	12	0	0	12	0	0	0	0	0	7,828
COPPER COMPOUNDS	N	0	22	22	0	0	22	0	0	0	0	0	5,870
HYDROCHLORIC ACID (1995 AND AFT	N	0	4,937	4,937	0	0	4,937	0	0	451,694	451,694	0	0
HYDROGEN FLUORIDE	N	0	335	335	0	0	335	0	0	27,813	27,813	0	0
MANGANESE COMPOUNDS	N	0	21	21	0	0	21	0	0	0	0	0	2,273
NICKEL COMPOUNDS	N	0	17	17	0	0	17	0	0	0	0	0	3,607
SULFURIC ACID - (1994 AND AFTER "	N	0	609	609	0	0	609	0	0	136,366	136,366	0	0
VANADIUM COMPOUNDS	N	0	25	25	0	0	25	0	0	0	0	0	18,573
ZINC COMPOUNDS	N	0	62	62	0	0	62	0	0	0	0	0	3,524
Total for BIRCHWOOD POWER FACILITY		93	6,242	6,335	0	0	6,335	0	0	909,768	909,768	0	64,300
Total for Above County : (11 reports)		93	6,242	6,335	0	0	6,335	0	0	909,768	909,768	0	64,300

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A , no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-37 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
KING WILLIAM	ROCKTENN CP, LLC							1901 MAIN ST				NAICS Code	32211
ACETALDEHYDE	N	624	28,829	29,453	0	121	29,574	17,100	0	39,000	56,100	0	1
AMMONIA	N	495	123,000	123,495	0	8,564	132,059	0	0	141,000	141,000	0	0
BARIUM COMPOUNDS	N	0	1,202	1,202	0	0	1,202	0	0	0	0	0	47,500
CATECHOL	N	0	0	0	0	24	24	189,000	0	0	189,000	0	0
CHLORINE	N	7	0	7	0	0	7	0	0	43,188	43,188	0	0
CHLORINE DIOXIDE	N	5	6,770	6,775	0	0	6,775	0	0	47,022	47,022	0	0
FORMALDEHYDE	N	6	13,696	13,702	0	357	14,059	11,300	0	13,000	24,300	0	2
FORMIC ACID	N	0	0	0	0	935	935	0	0	0	0	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	74,127	74,127	0	0	74,127	0	0	54,100	54,100	0	0
MANGANESE COMPOUNDS	N	0	369	369	0	31,164	31,533	0	0	0	0	0	187,793
METHANOL	N	97,104	432,455	529,559	0	10,826	540,385	198,283	0	8,860,000	9,058,283	0	61
NAPHTHALENE	N	2	2,450	2,452	0	0	2,452	0	0	19	19	0	0
NITRATE COMPOUNDS	N	0	0	0	0	19,939	19,939	0	0	0	0	0	113
PHENOL	N	7	20,000	20,007	0	6	20,013	20,200	0	13,900	34,100	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	109,574	109,574	0	0	109,574	0	0	0	0	0	0
VANADIUM COMPOUNDS	N	0	237	237	0	296	533	0	0	0	0	0	12,925
ZINC COMPOUNDS	N	0	369	369	0	1,981	2,350	0	0	0	0	0	84,101
Total for ROCKTENN CP, LLC		98,249	813,077	911,326	0	74,213	985,539	435,883	0	9,211,229	9,647,112	0	332,495
Total for Above County : (17 reports)		98,249	813,077	911,326	0	74,213	985,539	435,883	0	9,211,229	9,647,112	0	332,495
LANCASTER	QUARLES TCH BULK PLANT							73 SEAFOOD LANE				NAICS Code	42471
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
BENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-38 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
TOLUENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for Quarles TCH Bulk Plant		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (6 reports)		0	0	0	0	0	0	0	0	0	0	0	0
LOUDOUN		ASIG FUELING OPERATIONS INTERNATIONAL AIRPORT DULLES						TANK FARM RD BUILDING 2				NAICS Code 48811	
1,2,4-TRIMETHYLBENZENE	N	109	0	109	0	0	109	0	0	0	0	0	0
ARSENIC	N	1	0	1	0	0	1	0	0	0	0	0	0
BENZENE	N	70	0	70	0	0	70	0	0	0	0	0	0
BERYLLIUM	N	0	0	0	0	0	0	0	0	0	0	0	0
CADMIUM	N	0	0	0	0	0	0	0	0	0	0	0	0
CHROMIUM	N	1	0	1	0	0	1	0	0	0	0	0	0
ETHYLBENZENE	N	70	0	70	0	0	70	0	0	0	0	0	0
METHYL TERT-BUTYL ETHER	N	653	0	653	0	0	653	0	0	0	0	0	0
NAPHTHALENE	N	175	0	175	0	0	175	0	7,725	0	7,725	0	2,932
N-HEXANE	N	44	0	44	0	0	44	0	0	0	0	0	0
TOLUENE	N	314	0	314	0	0	314	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	312	0	312	0	0	312	0	0	0	0	0	0
Total for ASIG FUELING OPERATIONS INTERNATIONAL		1,749	0	1,749	0	0	1,749	0	7,725	0	7,725	0	2,932
LOUDOUN		DDI GLOBAL CORP						1200 SEVERN WAY				NAICS Code 33441	
AMMONIA	N	350	2,404	2,754	0	0	2,754	0	0	0	0	3,036	13,719
COPPER COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	548	178,850
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	37,382	37,382
NITRIC ACID	N	0	0	0	0	0	0	0	0	37,985	37,985	0	0
SULFURIC ACID - (1994 AND AFTER)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for DDi Global Corp		350	2,404	2,754	0	0	2,754	0	0	37,985	37,985	40,966	229,951

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-39 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
LOUDOUN	TIITAN VIRGINIA READY-MIX LLC-STERLING PLANT							22963 CONCRETE PLAZA				NAICS Code	32732
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for Tiitan Virginia Ready-Mix LLC-Sterling Plant		0	0	0	0	0	0	0	0	0	0	0	0
LOUDOUN	US DHS MT WEATHER EOC							19844 BLUE RIDGE MOUNTAIN RD				NAICS Code	92219
NAPHTHALENE	N	1	4	5	0	0	5	0	0	0	0	0	0
Total for US DHS MT WEATHER EOC		1	4	5	0	0	5	0	0	0	0	0	0
Total for Above County : (19 reports)		2,100	2,408	4,508	0	0	4,508	0	7,725	37,985	45,710	40,966	232,883
LOUISA	OLD DOMINION ELECTRIC CO-OP LOUISA GENERATION FACILITY							3352 KLOCKNER RD				NAICS Code	22111
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for OLD DOMINION ELECTRIC CO-OP LOUISA		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (3 reports)		0	0	0	0	0	0	0	0	0	0	0	0
LUNENBURG	LANCASTER LEAF TOBACCO CO.-KENBRIDGE							205 W MAIN ST				NAICS Code	31221
NICOTINE AND SALTS	N	0	250	250	0	0	250	0	0	0	0	0	2,037
Total for Lancaster Leaf Tobacco Co.-Kenbridge		0	250	250	0	0	250	0	0	0	0	0	2,037
LUNENBURG	VIRGINIA MARBLE MANUFACTURERS INC.							1201 FIFTH AVE				NAICS Code	32619
METHYL METHACRYLATE	N	0	6,117	6,117	0	0	6,117	0	0	0	0	0	0
METHYL METHACRYLATE	N	0	5,530	5,530	0	0	5,530	0	0	0	0	0	0
STYRENE	N	0	34,350	34,350	0	0	34,350	0	0	0	0	0	0
STYRENE	N	0	34,434	34,434	0	0	34,434	0	0	0	0	0	0
Total for VIRGINIA MARBLE MANUFACTURERS INC.		0	80,431	80,431	0	0	80,431	0	0	0	0	0	0
Total for Above County : (5 reports)		0	80,681	80,681	0	0	80,681	0	0	0	0	0	2,037

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-40 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
LYNCHBURG (CITY)	BANKER STEEL COMPANY, LLC							1619 WYTHE RD				NAICS Code	33231
CHROMIUM	N	5	5	10	0	5	15	0	0	0	0	0	7,272
MANGANESE	N	5	5	10	0	5	15	0	0	0	0	0	13,944
NICKEL	N	5	5	10	0	5	15	0	0	0	0	0	13,774
Total for Banker Steel Company, LLC		15	15	30	0	15	45	0	0	0	0	0	34,990
LYNCHBURG (CITY)	C R HUDGINS PLATING INC							3600 CANDLERS MOUNTAIN RD				NAICS Code	33281
ZINC COMPOUNDS	N	0	735	735	0	20	755	0	0	0	0	125	90
Total for C R HUDGINS PLATING INC		0	735	735	0	20	755	0	0	0	0	125	90
LYNCHBURG (CITY)	DAVIS-FROST INC							3420 CANDLER'S MOUNTAIN RD				NAICS Code	32551
CERTAIN GLYCOL ETHERS	N	442	0	442	0	0	442	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	1,686	0	1,686	0	0	1,686	0	0	0	0	0	11,674
ZINC COMPOUNDS	N	412	0	412	0	0	412	0	0	0	0	0	0
Total for DAVIS-FROST INC		2,540	0	2,540	0	0	2,540	0	0	0	0	0	11,674
LYNCHBURG (CITY)	DIEBOLD SOUTHEAST MANUFACTURING INC							3726 COHEN PL				NAICS Code	33299
CHROMIUM	N	0	3	3	0	0	3	0	0	0	0	0	20,186
MANGANESE	N	0	12	12	0	0	12	0	0	0	0	0	49,422
NICKEL	N	0	7	7	0	0	7	0	0	0	0	0	18,596
Total for DIEBOLD SOUTHEAST MANUFACTURING I		0	22	22	0	0	22	0	0	0	0	0	88,204
LYNCHBURG (CITY)	GRIFFIN PIPE PRODUCTS CO							10 ADAMS ST				NAICS Code	33151
DIISOCYANATES	N	0	0	0	0	0	0	0	0	0	0	0	3
MANGANESE COMPOUNDS	N	11	1,032	1,043	0	56	1,099	0	0	0	0	0	206,890
ZINC COMPOUNDS	N	136	17,423	17,559	0	180	17,739	0	0	0	0	556	548,635
Total for GRIFFIN PIPE PRODUCTS CO		147	18,455	18,602	0	236	18,838	0	0	0	0	556	755,528
LYNCHBURG (CITY)	NORCRAFT COMPANIES							1 MILLRACE DR				NAICS Code	33711
TOLUENE	N	0	33,130	33,130	0	0	33,130	0	0	0	0	0	60

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-41 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
XYLENE (MIXED ISOMERS)	N	0	11,725	11,725	0	0	11,725	0	0	0	0	0	1,090
Total for NORCRAFT COMPANIES		0	44,855	44,855	0	0	44,855	0	0	0	0	0	1,150
LYNCHBURG (CITY)	R. R. DONNELLEY PRINTING CO							4201 MURRAY PL				NAICS Code	32311
BARIUM COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	6	7
COPPER COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	72	1,030
TOLUENE	N	0	249,908	249,908	0	0	249,908	0	0	0	0	67	59,583
ZINC COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	22	29
Total for R. R. DONNELLEY PRINTING CO		0	249,908	249,908	0	0	249,908	0	0	0	0	167	60,649
LYNCHBURG (CITY)	SLOCUM ADHESIVES CORP							1409 BUCHANAN ST				NAICS Code	32552
CYCLOHEXANE	N	369	0	369	0	0	369	0	0	0	0	0	0
DICHLOROMETHANE	N	16,945	0	16,945	0	0	16,945	0	0	0	0	0	0
N-HEXANE	N	11,611	0	11,611	0	0	11,611	0	0	0	0	0	0
TOLUENE	N	6,546	0	6,546	0	0	6,546	0	0	0	0	0	0
Total for SLOCUM ADHESIVES CORP		35,471	0	35,471	0	0	35,471	0	0	0	0	0	0
LYNCHBURG (CITY)	WESTOVER DAIRY							2801 FORT AVE				NAICS Code	31151
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	19,959	19,959
NITRIC ACID	N	0	0	0	0	0	0	0	0	20,284	20,284	39	39
Total for WESTOVER DAIRY		0	0	0	0	0	0	0	0	20,284	20,284	19,998	19,998
Total for Above County : (25 reports)		38,173	313,990	352,163	0	271	352,434	0	0	20,284	20,284	20,846	972,283
MADISON	MADISON WOOD PRESERVERS INC.							216 OAK PARK RD				NAICS Code	32111
ARSENIC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
CHROMIUM COMPOUNDS (EXCEPT F	Y	0	0	0	0	0	0	0	0	0	0	0	0
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for MADISON WOOD PRESERVERS INC.		0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-42 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for Above County : (3 reports)		0	0	0	0	0	0	0	0	0	0	0	0
MANASSAS (CITY)	VERTIS							7619 DOANE DRIVE				NAICS Code 32311	
CERTAIN GLYCOLEETHERS	N	4,257	139	4,396	0	0	4,396	0	0	9,794	9,794	7	7
NITRATE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for VERTIS		4,257	139	4,396	0	0	4,396	0	0	9,794	9,794	7	7
Total for Above County : (2 reports)		4,257	139	4,396	0	0	4,396	0	0	9,794	9,794	7	7
MECKLENBURG	AMERICAN BUILDINGS COMPANY-LA CROSSE							501 GOLDEN EAGLE DR				NAICS Code 33231	
MANGANESE	N	5	0	5	0	0	5	0	0	0	0	0	16,350
NICKEL	N	3	0	3	0	0	3	0	0	0	0	0	1,423
Total for AMERICAN BUILDINGS COMPANY-LA CRO		8	0	8	0	0	8	0	0	0	0	0	17,773
MECKLENBURG	MECKLENBURG POWER STATION							204 COGEN DR				NAICS Code 22111	
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	261	261	0	0	261	0	0	47,100	47,100	0	0
Total for MECKLENBURG POWER STATION		0	261	261	0	0	261	0	0	47,100	47,100	0	0
Total for Above County : (6 reports)		8	261	269	0	0	269	0	0	47,100	47,100	0	17,773
MONTGOMERY	ALLIANT TECHSYSTEMS INC. (NEW RIVER ENERGETICS)							RT 114 RADFORD ARMY AMMUNITION PLANT				NAICS Code 32592	
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	25,078	25,078	0	0
NITROGLYCERIN	N	0	17,425	17,425	0	0	17,425	0	0	181,303	181,303	0	0
Total for ALLIANT TECHSYSTEMS INC. (NEW RIVER		0	17,425	17,425	0	0	17,425	0	0	206,381	206,381	0	0
MONTGOMERY	FEDERAL-MOGUL CORP							300 INDUSTRIAL PARK RD SE				NAICS Code 33635	
ALUMINUM (FUME OR DUST)	N	4,615	9,240	13,855	0	0	13,855	0	0	0	0	0	120,160

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-43 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ALUMINUM OXIDE (FIBROUS FORMS)	N	0	0	0	0	0	0	0	0	0	0	0	29,710
AMMONIA	Y	0	0	0	0	0	0	0	0	0	0	0	0
COPPER	N	39	79	118	0	0	118	0	7,847	0	7,847	0	57,733
Total for FEDERAL-MOGUL CORP		4,654	9,319	13,973	0	0	13,973	0	7,847	0	7,847	0	207,603
MONTGOMERY		HUBBELL LIGHTING INC.						2000 ELECTRIC WAY				NAICS Code	33512
COPPER	N	0	0	0	0	0	0	0	0	0	0	1	4,156
NITRIC ACID	N	0	46	46	0	0	46	0	0	15,384	15,384	0	0
Total for HUBBELL LIGHTING INC.		0	46	46	0	0	46	0	0	15,384	15,384	1	4,156
MONTGOMERY		PROCHEM, INC						5100 ENTERPRISE DR				NAICS Code	32599
NITRIC ACID	N	0	0	0	0	0	0	0	0	0	0	0	0
PERACETIC ACID	N	0	0	0	0	0	0	0	0	0	0	0	0
SODIUM DIMETHYLDITHIOCARBAM	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for PROCHEM, INC		0	0	0	0	0	0	0	0	0	0	0	0
MONTGOMERY		U.S. ARMY RADFORD AMMUNITION ALLIANT TECHSYSTEMS INC						RT 114 RADFORD ARMY AMMUNITION PLANT				NAICS Code	32592
2,4-DINITROTOLUENE	N	0	0	0	0	2	2	0	0	10,249	10,249	0	553
AMMONIA	N	23,513	338	23,851	0	484	24,335	0	0	0	0	0	0
CHLORINE	N	0	2	2	0	0	2	0	0	3,482	3,482	0	0
COPPER COMPOUNDS	N	700	133	833	0	117	950	0	0	0	0	0	20,910
DIBUTYL PHTHALATE	N	22	2	24	0	0	24	0	0	4,359	4,359	0	2
DIPHENYLAMINE	N	8	1	9	0	0	9	0	0	1,591	1,591	0	1
HYDROCHLORIC ACID (1995 AND AFT	N	0	294,819	294,819	0	0	294,819	0	0	0	0	0	0
NITRATE COMPOUNDS	N	0	0	0	0	12,596,837	12,596,837	0	0	5,095	5,095	0	0
NITRIC ACID	N	1,034	931	1,965	842	0	2,807	0	47,970,000	12,771,624	60,741,624	0	0
NITROGLYCERIN	N	0	71,722	71,722	0	18,893	90,615	0	0	926,084	926,084	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	65,338	65,338	0	0	65,338	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-44 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for U.S. ARMY RADFORD AMMUNITION ALLIA		25,277	433,286	458,563	842	12,616,333	13,075,738	0	47,970,000	13,722,484	61,692,484	0	21,466
MONTGOMERY WOLVERINE ADVANCED MATERIALS								201 INDUSTRIAL PARK RD				NAICS Code	33281
METHYL ISOBUTYL KETONE	N	250	250	500	0	0	500	0	0	16,918	16,918	0	0
METHYL ISOBUTYL KETONE	N	250	750	1,000	0	0	1,000	0	0	280,261	280,261	0	0
TOLUENE	N	250	250	500	0	0	500	0	0	66,280	66,280	0	0
TOLUENE	N	250	5,064	5,314	0	0	5,314	0	0	1,148,077	1,148,077	0	0
ZINC COMPOUNDS	N	0	0	0	0	250	250	0	0	0	0	0	0
Total for WOLVERINE ADVANCED MATERIALS		1,000	6,314	7,314	0	250	7,564	0	0	1,511,536	1,511,536	0	0
Total for Above County : (27 reports)		30,931	466,390	497,321	842	12,616,583	13,114,746	0	47,977,847	15,455,785	63,433,632	1	233,225
NEWPORT NEWS (CITY) CANON VIRGINIA INC								12000 CANON BLVD				NAICS Code	33411
CHLOROBENZENE	N	2,817	28	2,845	0	0	2,845	0	102,243	0	102,243	0	29,071
METHANOL	N	1,787	18	1,805	0	0	1,805	0	52,674	0	52,674	0	29,049
Total for CANON VIRGINIA INC		4,604	46	4,650	0	0	4,650	0	154,917	0	154,917	0	58,120
NEWPORT NEWS (CITY) CONTINENTAL AUTOMOTIVE SYSTEMS US., INC.								615 BLAND BLVD				NAICS Code	33631
CHROMIUM	N	0	0	0	0	0	0	0	0	0	0	0	74,043
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	5,206
Total for Continental Automotive Systems US., Inc.		0	0	0	0	0	0	0	0	0	0	0	79,249
NEWPORT NEWS (CITY) HUNTINGTON INGALLS INCORPORATED								4101 WASHINGTON AVE				NAICS Code	33661
CHROMIUM	N	77	4	81	0	78	159	0	0	0	0	64	0
COPPER	N	75	9	84	0	28	112	0	0	0	0	30	1,655
DIISOCYANATES	N	0	0	0	0	0	0	0	0	0	0	0	0
MANGANESE	N	578	6	584	0	43	627	0	0	0	0	40	33
NICKEL	N	143	4	147	0	78	225	0	0	0	0	77	496
SULFURIC ACID - (1994 AND AFTER "	N	0	25,168	25,168	0	0	25,168	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	22,843	193	23,036	0	0	23,036	0	0	0	0	0	33,966

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-45 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ZINC COMPOUNDS	N	2	0	2	0	7,626	7,628	0	0	0	0	1,264	4
Total for HUNTINGTON INGALLS INCORPORATED		23,717	25,385	49,102	0	7,853	56,955	0	0	0	0	1,476	36,154
NEWPORT NEWS (CITY)	KINYO VIRGINIA INC							290 ENTERPRISE DR				NAICS Code	32629
TOLUENE	N	59,400	33,600	93,000	0	0	93,000	0	0	0	0	0	25,315
Total for KINYO VIRGINIA INC		59,400	33,600	93,000	0	0	93,000	0	0	0	0	0	25,315
NEWPORT NEWS (CITY)	MARVA MAID DAIRY							5500 CHESTNUT AVE				NAICS Code	31151
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	19,526	0
NITRIC ACID	N	0	0	0	0	0	0	0	0	19,837	19,837	614	614
Total for MARVA MAID DAIRY		0	0	0	0	0	0	0	0	19,837	19,837	20,140	614
NEWPORT NEWS (CITY)	MICA CO OF CANADA INC							900 JEFFERSON AVE				NAICS Code	32799
METHANOL	N	250	42,670	42,920	0	0	42,920	0	0	0	0	0	0
TOLUENE	N	250	48,102	48,352	0	0	48,352	0	0	0	0	0	0
Total for MICA CO OF CANADA INC		500	90,772	91,272	0	0	91,272	0	0	0	0	0	0
Total for Above County : (17 reports)		88,221	149,803	238,024	0	7,853	245,877	0	154,917	19,837	174,754	21,616	199,452
NORFOLK (CITY)	BAE SYSTEMS NORFOLK SHIP REPAIR							750 W BERKLEY AVE				NAICS Code	33661
COPPER COMPOUNDS	N	477	0	477	0	44	521	0	0	0	0	114	2,444
N-BUTYL ALCOHOL	N	7,258	0	7,258	0	0	7,258	0	0	0	0	0	8,963
XYLENE (MIXED ISOMERS)	N	7,558	0	7,558	0	0	7,558	0	0	0	0	0	6,630
Total for BAE SYSTEMS NORFOLK SHIP REPAIR		15,293	0	15,293	0	44	15,337	0	0	0	0	114	18,037
NORFOLK (CITY)	CMC REBAR VIRGINIA							1344 BALENTINE BLVD				NAICS Code	33231
NICKEL COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for CMC REBAR VIRGINIA		0	0	0	0	0	0	0	0	0	0	0	0
NORFOLK (CITY)	COLONNA'S SHIPYARD INC							400 E INDIAN RIVER RD				NAICS Code	33661
COPPER COMPOUNDS	N	3,042	0	3,042	0	1	3,043	0	0	0	0	247	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-46 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
N-BUTYL ALCOHOL	N	13,029	0	13,029	0	0	13,029	0	0	0	0	0	40
XYLENE (MIXED ISOMERS)	N	9,794	0	9,794	0	0	9,794	0	0	0	0	0	88
Total for COLONNA'S SHIPYARD INC		25,865	0	25,865	0	1	25,866	0	0	0	0	247	128
NORFOLK (CITY) METRO MACHINE CORP DBA GENERAL DYNAMICS NASSCO NORF								200 LIGON ST				NAICS Code	33661
N-BUTYL ALCOHOL	N	4,755	0	4,755	0	0	4,755	0	0	0	0	0	8,523
XYLENE (MIXED ISOMERS)	N	6,649	0	6,649	0	0	6,649	0	0	0	0	0	4,735
Total for METRO MACHINE CORP DBA GENERAL D		11,404	0	11,404	0	0	11,404	0	0	0	0	0	13,258
NORFOLK (CITY) TITAN VIRGINIA READY-MIX LLC -CAMPOSTELLA PLANT								2125 KIMBALL TERRACE				NAICS Code	32732
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for Titan Virginia Ready-Mix LLC -Campostella PI		0	0	0	0	0	0	0	0	0	0	0	0
NORFOLK (CITY) U.S. NAVY NAVAL STATION NORFOLK								1530 GILBERT ST				NAICS Code	92811
NAPHTHALENE	N	40	25	65	0	0	65	0	0	0	0	0	34,481
Total for U.S. NAVY NAVAL STATION NORFOLK		40	25	65	0	0	65	0	0	0	0	0	34,481
Total for Above County : (11 reports)		52,602	25	52,627	0	45	52,672	0	0	0	0	361	65,904
NORTHUMBERLAND CARRY-ON TRAILER CORP								617 HARRY HOGAN RD				NAICS Code	33621
MANGANESE	N	4	0	4	0	0	4	0	0	0	0	0	304
Total for CARRY-ON TRAILER CORP		4	0	4	0	0	4	0	0	0	0	0	304
NORTHUMBERLAND OMEGA PROTEIN INC.								610 MENHADEN RD PO BOX 175				NAICS Code	31171
AMMONIA	N	10,000	0	10,000	0	0	10,000	0	0	0	0	0	0
NITRIC ACID	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for OMEGA PROTEIN INC.		10,000	0	10,000	0	0	10,000	0	0	0	0	0	0
Total for Above County : (3 reports)		10,004	0	10,004	0	0	10,004	0	0	0	0	0	304
NOTTOWAY COX WOOD OF VIRGINIA (FORMERLY TAYLOR RAMSEY WD PRESE								2960 COX RD				NAICS Code	32111
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-47 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address		Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Chemical Name	form A*												
Total for Cox Wood of Virginia (Formerly Taylor Ramse		0	0	0	0	0	0	0	0	0	0	0	0
NOTTOWAY	TYSON FOODS INC. - FEED MILL							1938 PATRICK HENRY HWY				NAICS Code	31111
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
MANGANESE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for TYSON FOODS INC. - FEED MILL		0	0	0	0	0	0	0	0	0	0	0	0
NOTTOWAY	US ARMY NATIONAL GUARD FORT PICKETT INSTALLATION							USPFO, BUILDING 316, FORT PICKETT				NAICS Code	92811
COPPER	N	0	0	0	78,213	0	78,213	0	0	0	0	0	0
Total for US ARMY NATIONAL GUARD FORT PICKET		0	0	0	78,213	0	78,213	0	0	0	0	0	0
Total for Above County : (5 reports)		0	0	0	78,213	0	78,213	0	0	0	0	0	0
PATRICK	MICROMETRICS SYSTEM							225 JEB STUART HWY				NAICS Code	33271
CHLORINE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for MICROMETRICS SYSTEM		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (1 record)		0	0	0	0	0	0	0	0	0	0	0	0
PETERSBURG (CITY)	AMSTED RAIL COMPANY INC.							2580 FRONTAGE RD				NAICS Code	33211
CHROMIUM	N	0	5	5	0	0	5	0	0	0	0	0	180,585
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	62,812
MANGANESE	N	0	5	5	0	0	5	0	0	0	0	0	54,960
NICKEL	N	0	5	5	0	0	5	0	0	0	0	0	180,585
Total for Amsted Rail Company Inc.		0	15	15	0	0	15	0	0	0	0	0	478,942
PETERSBURG (CITY)	BOAR'S HEAD PETERSBURG FACILITY							1950 INDUSTRIAL RD				NAICS Code	31161
AMMONIA	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for BOAR'S HEAD PETERSBURG FACILITY		0	0	0	0	0	0	0	0	0	0	0	0
PETERSBURG (CITY)	BOEHRINGER INGELHEIM CHEMICALS INC							2820 N NORMANDY DRIVE				NAICS Code	32541

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-48 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ACETONITRILE	N	21	23	44	0	0	44	0	0	20,129	20,129	33	91,176
AMMONIA	N	3	0	3	0	0	3	0	0	82,026	82,026	9,977	34,291
CERTAIN GLYCOL ETHERS	N	3	4	7	0	0	7	0	0	125	125	0	156,355
CYCLOHEXANE	N	3	12	15	0	0	15	0	0	389	389	0	28,202
DICHLOROMETHANE	N	138	2	140	0	0	140	0	0	231	231	0	27,277
ETHYLENE GLYCOL	N	63	196	259	0	0	259	0	74,992	81,770	156,762	0	634,155
FORMIC ACID	N	29	5	34	0	0	34	0	0	153	153	0	293,123
METHANOL	N	1,503	14	1,517	0	0	1,517	0	0	0	0	14	31,661
METHYL TERT-BUTYL ETHER	N	459	68	527	0	0	527	0	0	9,529	9,529	1,134	730,478
NICOTINE AND SALTS	N	1	0	1	0	0	1	0	0	0	0	0	11,288
TOLUENE	N	1,606	7	1,613	0	0	1,613	0	0	2,590	2,590	0	145,612
Total for BOEHRINGER INGELHEIM CHEMICALS INC		3,829	331	4,160	0	0	4,160	0	74,992	196,942	271,934	11,158	2,183,618
PETERSBURG (CITY) DOMINION CHEMICAL CO INC								2050 PUDDLEDock RD				NAICS Code	32599
FORMALDEHYDE	N	250	5	255	0	0	255	0	0	0	0	0	0
METHANOL	N	250	250	500	0	0	500	0	0	0	0	0	0
Total for DOMINION CHEMICAL CO INC		500	255	755	0	0	755	0	0	0	0	0	0
PETERSBURG (CITY) INDUSTRIAL GALVANIZERS VIRGINIA								3535 HALIFAX RD				NAICS Code	33281
ZINC COMPOUNDS	N	680	0	680	0	0	680	0	0	0	0	0	71,000
Total for INDUSTRIAL GALVANIZERS VIRGINIA		680	0	680	0	0	680	0	0	0	0	0	71,000
PETERSBURG (CITY) PRE CON INC								220 S PERRY ST				NAICS Code	31332
CYCLOHEXANE	N	2,828	12,575	15,403	0	0	15,403	0	0	251,499	251,499	0	317,771
Total for PRE CON INC		2,828	12,575	15,403	0	0	15,403	0	0	251,499	251,499	0	317,771
Total for Above County : (20 reports)		7,837	13,176	21,013	0	0	21,013	0	74,992	448,441	523,433	11,158	3,051,331
PITTSYLVANIA CCP COMPOSITES US								920 TIGHTSQUEEZE INDUSTRIAL RD				NAICS Code	32521
DICYCLOPENTADIENE	N	1,200	2	1,202	0	0	1,202	0	0	0	0	0	31,600

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-49 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ETHYLENE GLYCOL	N	2,200	0	2,200	0	0	2,200	0	0	0	0	0	33,987
MALEIC ANHYDRIDE	N	1,600	410	2,010	0	0	2,010	0	0	0	0	0	170
PHTHALIC ANHYDRIDE	N	870	260	1,130	0	0	1,130	0	0	0	0	0	170
STYRENE	N	8,900	49	8,949	0	0	8,949	0	0	0	0	0	29,100
TRIETHYLAMINE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for CCP COMPOSITES US		14,770	721	15,491	0	0	15,491	0	0	0	0	0	95,027
PITTSYLVANIA		DANCHEM TECHNOLOGIES INC.						1975 OLD RICHMOND RD				NAICS Code	32521
ACRYLIC ACID	N	10	49	59	0	0	59	0	0	0	0	0	0
ANTIMONY COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	669	0
DIISOCYANATES	N	0	0	0	0	0	0	0	0	0	0	0	1,121
ETHYLENE GLYCOL	N	97	3	101	0	0	101	0	0	0	0	0	42,401
MALEIC ANHYDRIDE	N	148	2	150	0	0	150	0	0	0	0	0	136
MANGANESE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
METHANOL	N	1,115	1,782	2,897	0	0	2,897	0	0	0	0	0	75,387
METHYL METHACRYLATE	N	389	175	564	0	0	564	0	0	0	0	0	0
N-BUTYL ALCOHOL	N	8,065	61,166	69,231	0	0	69,231	0	2,886,874	3,310,169	6,197,043	0	422,690
PHENOL	N	0	1	1	0	0	1	0	0	0	0	37	37
TOLUENE	N	2,526	2,862	5,388	0	0	5,388	0	0	33,762	33,762	7	2,255
VINYL ACETATE	N	475	932	1,407	0	0	1,407	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	3,502	3,272	6,774	0	0	6,774	0	0	0	0	0	76,751
Total for DANCHEM TECHNOLOGIES INC.		16,328	70,244	86,572	0	0	86,572	0	2,886,874	3,343,931	6,230,805	712	620,777
PITTSYLVANIA		ELKAY WOOD PRODUCTS COMPANY						2000 CANE CREEK PARKWAY				NAICS Code	33711
XYLENE (MIXED ISOMERS)	N	4,608	13,825	18,433	0	0	18,433	0	0	0	0	0	9,673
Total for Elkay Wood Products Company		4,608	13,825	18,433	0	0	18,433	0	0	0	0	0	9,673
PITTSYLVANIA		INTERTAPE POLYMER CORP						1101 EAGLE SPRINGS RD				NAICS Code	32611

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-50 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
TOLUENE	N	9,648	110,952	120,600	0	0	120,600	0	1,819,043	0	1,819,043	0	0
Total for INTERTAPE POLYMER CORP		9,648	110,952	120,600	0	0	120,600	0	1,819,043	0	1,819,043	0	0
PITTSYLVANIA	JTI LEAF SERVICES (US) LLC							202 STINSON DRIVE				NAICS Code	31221
AMMONIA	N	601	2,408	3,009	0	0	3,009	0	0	0	0	705	1,296
NICOTINE AND SALTS	N	10,020	21,500	31,520	0	0	31,520	0	0	0	0	2,359	4,335
Total for JTI Leaf Services (US) LLC		10,621	23,908	34,529	0	0	34,529	0	0	0	0	3,064	5,631
PITTSYLVANIA	SARTOMER USA, LLC							601 TIGHTSQUEEZE INDUSTRIAL RD				NAICS Code	32521
ACRYLIC ACID	N	250	250	500	0	0	500	0	0	360,000	360,000	0	0
BUTYL ACRYLATE	N	250	250	500	0	0	500	0	0	500	500	0	600
CERTAIN GLYCOLETHERS	N	5	5	10	0	0	10	0	0	140	140	0	760
DIISOCYANATES	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLBENZENE	N	250	250	500	0	0	500	0	0	1,300	1,300	0	11,250
HYDROQUINONE	Y	0	0	0	0	0	0	0	0	0	0	0	0
METHYL METHACRYLATE	N	250	250	500	0	0	500	0	0	200	200	0	1,500
PHTHALIC ANHYDRIDE	Y	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE	N	2,800	1,200	4,000	0	0	4,000	0	1,700,000	43,000	1,743,000	0	583,750
TOLUENE DIISOCYANATE (MIXED IS	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	750	250	1,000	0	0	1,000	0	0	5,000	5,000	0	42,250
Total for SARTOMER USA, LLC		4,555	2,455	7,010	0	0	7,010	0	1,700,000	410,140	2,110,140	0	640,110
Total for Above County : (34 reports)		60,530	222,106	282,636	0	0	282,636	0	6,405,917	3,754,071	10,159,988	3,776	1,371,218
PORTSMOUTH (CITY)	SHERWIN WILLIAMS CO							3560 ELM AVE				NAICS Code	32551
N-BUTYL ALCOHOL	N	661	0	661	0	0	661	0	0	0	0	0	1,873
Total for SHERWIN WILLIAMS CO		661	0	661	0	0	661	0	0	0	0	0	1,873
PORTSMOUTH (CITY)	U.S. AMINES (PORTSMOUTH) LLC							3230 W NORFOLK RD				NAICS Code	32519
1,2-DICHLOROETHANE	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-51 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
3-CHLORO-2-METHYL-1-PROPENE	N	47	1	48	0	0	48	0	0	0	0	0	0
ALLYL CHLORIDE	N	138	6	144	0	0	144	0	0	0	0	0	0
ALLYLAMINE	N	136	1,480	1,616	0	0	1,616	0	0	72,520	72,520	0	0
AMMONIA	N	40	0	40	0	0	40	0	0	0	0	4	3
Total for U.S. AMINES (Portsmouth) LLC		361	1,487	1,848	0	0	1,848	0	0	72,520	72,520	4	3
PORTSMOUTH (CITY)	U.S. NAVY NORFOLK NAVAL SHIPYARD RANGE							INTERSECTION OF EFFINGHAM ST & GEORGETOWN				NAICS Code	92811
1,2,4-TRIMETHYLBENZENE	N	20,000	940	20,940	0	0	20,940	0	0	0	0	12	452
COPPER COMPOUNDS	N	670	0	670	450	890	2,010	0	0	0	0	300	0
N-BUTYL ALCOHOL	N	35,000	6,000	41,000	0	0	41,000	0	0	0	0	0	650
XYLENE (MIXED ISOMERS)	N	15,000	3,400	18,400	0	0	18,400	0	0	0	0	12	7,012
ZINC COMPOUNDS	N	320	0	320	210	1,100	1,630	0	0	0	0	360	0
Total for U.S. NAVY NORFOLK NAVAL SHIPYARD R		70,990	10,340	81,330	660	1,990	83,980	0	0	0	0	684	8,114
PORTSMOUTH (CITY)	US NAVY DEFENSE FUEL SUPPORT POINT CRANEY ISLAND							4501 CEDAR LN BLDG 288				NAICS Code	92811
NAPHTHALENE	N	18	549	567	0	0	567	0	145,981	65	146,046	0	43,346
Total for US NAVY DEFENSE FUEL SUPPORT POIN		18	549	567	0	0	567	0	145,981	65	146,046	0	43,346
Total for Above County : (12 reports)		72,030	12,376	84,406	660	1,990	87,056	0	145,981	72,585	218,566	688	53,336
PRINCE EDWARD	CMC REBAR VIRGINIA							300 SMI WAY				NAICS Code	33231
NICKEL COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for CMC REBAR VIRGINIA		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (1 record)		0	0	0	0	0	0	0	0	0	0	0	0
PRINCE GEORGE	HOPEWELL COGENERATION FACILITY							1114 HERCULES RD				NAICS Code	22111
SULFURIC ACID - (1994 AND AFTER "	N	0	59,953	59,953	0	0	59,953	0	0	0	0	0	0
Total for HOPEWELL COGENERATION FACILITY		0	59,953	59,953	0	0	59,953	0	0	0	0	0	0
PRINCE GEORGE	METL-SPAN LLC							6001 QUALITY WAY				NAICS Code	33231

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-52 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
CHLORODIFLUOROMETHANE	N	84,887	0	84,887	0	0	84,887	0	0	0	0	0	0
DIISOCYANATES	N	9	0	9	0	0	9	0	0	0	0	0	0
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	17,247
Total for METL-SPAN LLC		84,896	0	84,896	0	0	84,896	0	0	0	0	0	17,247
Total for Above County : (4 reports)		84,896	59,953	144,849	0	0	144,849	0	0	0	0	0	17,247
PRINCE WILLIAM		MICRON TECHNOLOGY INC.						9600 GODWIN DR				NAICS Code 33441	
AMMONIA	N	200	9,000	9,200	0	0	9,200	0	0	0	0	44,000	44,001
HYDROGEN FLUORIDE	N	0	5,500	5,500	0	0	5,500	0	0	680,000	680,000	0	980
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	115,000	115,000
NITRIC ACID	N	0	120	120	0	0	120	0	0	117,000	117,000	0	1,110
OZONE	N	0	40	40	0	0	40	0	0	44,000	44,000	0	0
PROPYLENE	N	0	190	190	0	0	190	0	0	0	0	0	0
Total for MICRON TECHNOLOGY INC.		200	14,850	15,050	0	0	15,050	0	0	841,000	841,000	159,000	161,091
PRINCE WILLIAM		POSSUM POINT POWER STATION						19000 POSSUM POINT RD				NAICS Code 22111	
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
AMMONIA	N	0	85,700	85,700	0	25,400	111,100	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	N	0	2,920	2,920	0	0	2,920	0	0	0	0	0	0
Total for POSSUM POINT POWER STATION		0	88,620	88,620	0	25,400	114,020	0	0	0	0	0	0
PRINCE WILLIAM		QUARLES PETROLEUM INC. MANASSAS BULK PLANT						8001 WELLINGFORD DR				NAICS Code 42471	
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
BENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-53 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for QUARLES PETROLEUM INC. MANASSAS B		0	0	0	0	0	0	0	0	0	0	0	0
PRINCE WILLIAM	SAFETY-KLEEN SYSTEMS (205801)							11520 BALLS FORD RD				NAICS Code	56211
ETHYLENE GLYCOL	N	26	5	31	0	0	31	0	0	0	0	0	316,868
Total for SAFETY-KLEEN SYSTEMS (205801)		26	5	31	0	0	31	0	0	0	0	0	316,868
PRINCE WILLIAM	U.S. MARINE CORPS BASE QUANTICO RANGE COMPLEX							3250 CATLIN AVE				NAICS Code	92811
1,2,4-TRIMETHYLBENZENE	N	16	5	21	0	0	21	0	0	0	0	0	0
BENZENE	N	150	28	178	0	0	178	0	0	0	0	0	0
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	0
CYCLOHEXANE	N	2	0	2	0	0	2	0	0	0	0	0	0
METHYL TERT-BUTYL ETHER	N	71	170	241	0	0	241	0	0	0	0	0	0
N-HEXANE	N	30	540	570	0	0	570	0	0	0	0	0	0
NITRATE COMPOUNDS	N	0	0	0	0	34,700	34,700	0	0	0	0	0	0
TOLUENE	N	1,100	45	1,145	0	0	1,145	0	0	0	0	0	360
XYLENE (MIXED ISOMERS)	N	480	17	497	0	0	497	0	0	0	0	0	36
Total for U.S. MARINE CORPS BASE QUANTICO RA		1,849	805	2,654	0	34,700	37,354	0	0	0	0	0	396
PRINCE WILLIAM	ZEBRA001							1400 PW PARKWAY				NAICS Code	11111
1,1,2,2-TETRACHLOROETHANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for ZEBRA001		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (27 reports)		2,075	104,280	106,355	0	60,100	166,455	0	0	841,000	841,000	159,000	478,355
PULASKI	BONDCOTE CORP							509 BURGIS AVE				NAICS Code	31332
ANTIMONY COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	2,508
BARIUM COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	1,646
CHROMIUM COMPOUNDS (EXCEPT F	N	0	0	0	0	0	0	0	0	0	0	0	314
DIBUTYL PHTHALATE	N	0	0	0	0	0	0	0	0	0	0	0	3,056

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-54 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address		Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Chemical Name	form A*												
Total for BONDCOTE CORP		0	0	0	0	0	0	0	0	0	0	0	7,524
PULASKI	CATERPILLAR GLOBAL MINING							4041 WURNO ROAD				NAICS Code	33313
MANGANESE	N	26	0	26	0	0	26	0	0	0	0	0	0
Total for Caterpillar Global Mining		26	0	26	0	0	26	0	0	0	0	0	0
PULASKI	ELECTROPLATE-RITE CORP							5529 LEE HWY				NAICS Code	33281
ZINC COMPOUNDS	N	145	218	363	0	0	363	0	0	0	0	5	0
Total for ELECTROPLATE-RITE CORP		145	218	363	0	0	363	0	0	0	0	5	0
PULASKI	JAMES HARDIE BUILDING PRODUCTS PULASKI							1000 JAMES HARDIE WAY				NAICS Code	32739
CHROMIUM COMPOUNDS (EXCEPT F	N	0	0	0	0	0	0	0	0	0	0	0	144
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	0
MANGANESE COMPOUNDS	N	5	0	5	0	0	5	0	0	0	0	0	1,346
Total for JAMES HARDIE BUILDING PRODUCTS PUL		5	0	5	0	0	5	0	0	0	0	0	1,490
PULASKI	MAR-BAL, INC.							5400 RESERVE WAY				NAICS Code	32619
STYRENE	N	2,713	0	2,713	0	0	2,713	0	0	0	0	0	750
Total for MAR-BAL, INC.		2,713	0	2,713	0	0	2,713	0	0	0	0	0	750
PULASKI	TRIM SYSTEMS							320 NEWBERN RD				NAICS Code	33636
DIISOCYANATES	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for TRIM SYSTEMS		0	0	0	0	0	0	0	0	0	0	0	0
PULASKI	VOLVO TRUCKS NORTH AMERICA							4881 COUGAR TRAIL ROAD				NAICS Code	33612
ETHYLENE GLYCOL	N	1	12	13	0	0	13	0	0	12	12	0	16,000
METHANOL	N	325	3	328	0	0	328	0	0	2	2	0	0
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for VOLVO TRUCKS NORTH AMERICA		326	15	341	0	0	341	0	0	14	14	0	16,000
Total for Above County : (14 reports)		3,215	233	3,448	0	0	3,448	0	0	14	14	5	25,764

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-55 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address		Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Chemical Name	form A*												
RADFORD (CITY) GREDE-RADFORD, LLC								1701 WEST MAIN STREET				NAICS Code	33151
COPPER COMPOUNDS	N	0	2	2	0	2	4	0	0	0	0	0	250
DIISOCYANATES	N	0	5	5	0	0	5	0	0	0	0	0	0
MANGANESE COMPOUNDS	N	0	17	17	0	0	17	0	0	0	0	0	2,391
NICKEL	N	0	1	1	0	0	1	0	0	0	0	0	81
PHENOL	N	32	37	69	0	0	69	0	0	0	0	0	96
TRIETHYLAMINE	N	0	332	332	0	0	332	0	0	0	0	0	0
ZINC COMPOUNDS	N	0	156	156	0	1	157	0	0	0	0	0	2
Total for Grede-Radford, LLC		32	550	582	0	3	585	0	0	0	0	0	2,820
RADFORD (CITY) KOLLMORGEN INLAND MOTOR RADFORD MAIN ST								501 W MAIN ST				NAICS Code	33531
COPPER	N	0	0	0	0	0	0	0	0	0	0	4	12,722
Total for KOLLMORGEN INLAND MOTOR RADFORD		0	0	0	0	0	0	0	0	0	0	4	12,722
Total for Above County : (8 reports)		32	550	582	0	3	585	0	0	0	0	4	15,542
RICHMOND WOOD PRESERVERS INC								15939 HISTORY LAND HWY				NAICS Code	32111
ARSENIC COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
CHROMIUM COMPOUNDS (EXCEPT F	N	0	0	0	0	0	0	0	0	0	0	0	0
COPPER COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
STYRENE	N	136	2,583	2,719	0	0	2,719	0	0	0	0	0	0
Total for WOOD PRESERVERS INC		136	2,583	2,719	0	0	2,719	0	0	0	0	0	0
Total for Above County : (4 reports)		136	2,583	2,719	0	0	2,719	0	0	0	0	0	0
RICHMOND (CITY) BELLEMEADE POWER STATION								1860 COMMERCE RD				NAICS Code	22111
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
AMMONIA	N	0	40,000	40,000	0	0	40,000	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-56 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for BELLEMEADE POWER STATION		0	40,000	40,000	0	0	40,000	0	0	0	0	0	0
RICHMOND (CITY) CARPENTER CO RICHMOND PLANT								2400 JEFFERSON DAVIS HWY				NAICS Code	32615
1,3-PHENYLENEDIAMINE	N	0	0	0	0	0	0	0	0	0	0	0	0
DIISOCYANATES	N	0	1	1	0	0	1	0	0	0	0	0	23,356
ETHYLENE GLYCOL	N	14	142	156	0	0	156	0	0	0	0	0	0
TOLUENE DIISOCYANATE (MIXED IS	N	5	750	755	0	0	755	0	0	0	0	0	11,114
Total for CARPENTER CO RICHMOND PLANT		19	893	912	0	0	912	0	0	0	0	0	34,470
RICHMOND (CITY) KINDER MORGAN OPERATING LPA								3302 DEEPWATER TERMINAL RD				NAICS Code	32411
1,2,4-TRIMETHYLBENZENE	N	361	3	364	0	0	364	0	0	127	127	0	436
BENZENE	N	117	132	249	0	0	249	0	0	6,087	6,087	0	257
ETHYLBENZENE	N	16	8	24	0	0	24	0	0	380	380	0	201
N-HEXANE	N	94	265	359	0	0	359	0	0	5,580	5,580	0	88
TOLUENE	N	184	140	324	0	0	324	0	0	6,467	6,467	0	1,003
XYLENE (MIXED ISOMERS)	N	181	38	219	0	0	219	0	0	1,775	1,775	0	1,024
Total for KINDER MORGAN OPERATING LPA		953	587	1,540	0	0	1,540	0	0	20,417	20,417	0	3,008
RICHMOND (CITY) LAND-O-SUN DAIRIES LLC (DBA PET DAIRY) RICHMOND								1505 ROBINHOOD RD				NAICS Code	31151
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	55,678	55,678
NITRIC ACID	N	0	0	0	0	0	0	0	0	56,566	56,566	0	0
Total for LAND-O-SUN DAIRIES LLC (DBA PET DAIR		0	0	0	0	0	0	0	0	56,566	56,566	55,678	55,678
RICHMOND (CITY) PHILIP MORRIS USA COMMERCE ROAD SITE								3601 COMMERCE RD				NAICS Code	31222
AMMONIA	N	193	19,326	19,519	0	0	19,519	0	0	5,776	5,776	1,761	1,766
HYDROCHLORIC ACID (1995 AND AFT	N	0	53,624	53,624	0	0	53,624	0	0	0	0	0	0
NICOTINE AND SALTS	N	123	12,348	12,471	0	0	12,471	0	0	122,946	122,946	59,859	181,539
Total for PHILIP MORRIS USA COMMERCE ROAD SI		316	85,298	85,614	0	0	85,614	0	0	128,722	128,722	61,620	183,305

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-57 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
RICHMOND (CITY)		SAMPSON COATINGS INC.						301 HULL ST				NAICS Code	32551
TOLUENE	N	762	0	762	0	0	762	0	0	0	0	0	2,937
XYLENE (MIXED ISOMERS)	N	771	0	771	0	0	771	0	0	0	0	0	2,971
Total for SAMPSON COATINGS INC.		1,533	0	1,533	0	0	1,533	0	0	0	0	0	5,908
RICHMOND (CITY)		SPRUANCE GENCO LLC						5001 COMMERCE RD				NAICS Code	22111
CHLORINE	N	0	0	0	0	0	0	0	0	0	0	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	0	68,140	68,140	0	0	68,140	0	0	729,471	729,471	0	0
HYDROGEN FLUORIDE	N	0	8,520	8,520	0	0	8,520	0	0	91,181	91,181	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	307	307	0	0	307	0	0	3,286	3,286	0	0
VANADIUM COMPOUNDS	N	0	159	159	0	0	159	0	0	0	0	0	0
ZINC COMPOUNDS	N	0	15	15	0	68	83	0	0	0	0	0	0
Total for SPRUANCE GENCO LLC		0	77,141	77,142	0	68	77,210	0	0	823,938	823,938	0	0
Total for Above County : (27 reports)		2,822	203,919	206,741	0	68	206,809	0	0	1,029,643	1,029,643	117,298	282,369
ROANOKE		ACCELLENT						200 S YORKSHIRE ST				NAICS Code	33299
COPPER	N	0	0	0	0	0	0	0	0	0	0	0	38,424
NITRIC ACID	N	0	0	0	0	0	0	0	0	15,570	15,570	0	0
Total for ACCELLENT		0	0	0	0	0	0	0	0	15,570	15,570	0	38,424
ROANOKE		CHEMSOLV INC						1140 INDUSTRY AVE SE PO BOX 13847				NAICS Code	42469
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
AMMONIA	Y	0	0	0	0	0	0	0	0	0	0	0	0
BUTYL ACRYLATE	Y	0	0	0	0	0	0	0	0	0	0	0	0
DICHLOROMETHANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
DIETHANOLAMINE	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLENE GLYCOL	Y	0	0	0	0	0	0	0	0	0	0	0	0
FORMALDEHYDE	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-58 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
FORMIC ACID	Y	0	0	0	0	0	0	0	0	0	0	0	0
METHANOL	N	351	307	658	0	0	658	0	0	0	0	0	0
METHYL ISOBUTYL KETONE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-BUTYL ALCOHOL	Y	0	0	0	0	0	0	0	0	0	0	0	0
NITRIC ACID	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-METHYL-2-PYRROLIDONE	Y	0	0	0	0	0	0	0	0	0	0	0	0
STYRENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE	N	115	299	414	0	0	414	0	0	0	0	0	0
TRICHLOROETHYLENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for CHEMSOLV INC		466	606	1,072	0	0	1,072	0	0	0	0	0	0
ROANOKE		EXELIS, INC - NIGHT VISION & IMAGING						7635 PLANTATION RD				NAICS Code	33451
DICHLOROPENTAFLUOROPROPANE	N	460	8,800	9,260	0	0	9,260	0	0	0	0	0	1,720
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	20,000	20,000
NITRIC ACID	N	0	0	0	0	0	0	0	0	20,000	20,000	0	0
Total for EXELIS, INC - NIGHT VISION & IMAGING		460	8,800	9,260	0	0	9,260	0	0	20,000	20,000	20,000	21,720
ROANOKE		GRAHAM-WHITE MANUFACTURING CO.						1242 COLORADO ST				NAICS Code	33651
COPPER	N	92	0	92	0	0	92	0	0	0	0	0	21,497
Total for GRAHAM-WHITE MANUFACTURING CO.		92	0	92	0	0	92	0	0	0	0	0	21,497
ROANOKE		KIK (VIRGINIA) LLC						27 MILL LN				NAICS Code	32561
CHLORINE	N	1	0	1	0	0	1	0	0	0	0	0	0
Total for KIK (VIRGINIA) LLC		1	0	1	0	0	1	0	0	0	0	0	0
ROANOKE		KOPPERS INC. (ROANOKE, VA)						RT. 460				NAICS Code	32111
CREOSOTE	N	1,800	4,700	6,500	0	1	6,501	0	1,100,000	50	1,100,050	0	20,000
Total for KOPPERS INC. (Roanoke, VA)		1,800	4,700	6,500	0	1	6,501	0	1,100,000	50	1,100,050	0	20,000

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-59 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ROANOKE	MEDECO SECURITY LOCKS INC.							3625 ALLEGHENY DR				NAICS Code	33251
COPPER COMPOUNDS	N	0	0	0	0	13	13	0	0	0	0	3	561,942
NICKEL COMPOUNDS	N	0	0	0	0	11	11	0	0	0	0	1	1,031
ZINC COMPOUNDS	N	0	1	1	0	16	17	0	0	0	0	1	310,134
Total for MEDECO SECURITY LOCKS INC.		0	1	1	0	40	41	0	0	0	0	5	873,107
ROANOKE	MENNEL MILLING CO OF VIRGINIA							5185 BENOIS RD				NAICS Code	31121
CHLORINE	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for MENNEL MILLING CO OF VIRGINIA		0	0	0	0	0	0	0	0	0	0	0	0
ROANOKE	NEW MILLENNIUM BUILDING SYSTEMS							100 DIUGUIDS LANE				NAICS Code	33231
MANGANESE	N	97	0	97	0	0	97	0	0	0	0	0	25,001
NICKEL	N	0	0	0	0	0	0	0	0	0	0	0	7,280
Total for NEW MILLENNIUM BUILDING SYSTEMS		97	0	97	0	0	97	0	0	0	0	0	32,281
ROANOKE	SAFETY-KLEEN SYSTEMS (315501)							16090 STEWARTSVILLE RD				NAICS Code	56211
ETHYLENE GLYCOL	N	9	4	13	0	0	13	0	0	0	0	0	132,071
Total for SAFETY-KLEEN SYSTEMS (315501)		9	4	13	0	0	13	0	0	0	0	0	132,071
ROANOKE	SEMCO DUCTS & ACOUSTICAL PRODUCTS INC							1967 BLUE HILLS DR NE				NAICS Code	33232
CHROMIUM	N	0	0	0	0	0	0	0	0	0	0	0	7,026
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	11,805
NICKEL	N	0	0	0	0	0	0	0	0	0	0	0	8,197
Total for SEMCO DUCTS & ACOUSTICAL PRODUCT		0	0	0	0	0	0	0	0	0	0	0	27,028
ROANOKE	TECTON PRODUCTS LLC							5415 CORPORATE CIR				NAICS Code	32619
STYRENE	N	750	250	1,000	0	0	1,000	0	0	21,355	21,355	0	1,019
Total for TECTON PRODUCTS LLC		750	250	1,000	0	0	1,000	0	0	21,355	21,355	0	1,019
ROANOKE	VIRGINIA TRANSFORMER CORP.							220 GLADE VIEW DR NE				NAICS Code	33531

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-60 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
XYLENE (MIXED ISOMERS)	N	5,914	4,684	10,598	0	0	10,598	0	1,350	0	1,350	0	0
Total for VIRGINIA TRANSFORMER CORP.		5,914	4,684	10,598	0	0	10,598	0	1,350	0	1,350	0	0
ROANOKE		YOKOHAMA TIRE CORP						1500 INDIANA ST				NAICS Code	32621
COBALT COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	712
ZINC COMPOUNDS	N	6,398	0	6,398	0	0	6,398	0	0	0	0	93	57,100
Total for YOKOHAMA TIRE CORP		6,398	0	6,398	0	0	6,398	0	0	0	0	93	57,812
Total for Above County : (39 reports)		15,987	19,045	35,032	0	41	35,073	0	1,101,350	56,975	1,158,325	20,099	1,224,959
ROANOKE (CITY)		AKZO NOBEL COATINGS INC						2837 ROANOKE AVE SW				NAICS Code	32551
1,2,4-TRIMETHYLBENZENE	N	312	0	312	0	0	312	0	0	0	0	0	3,476
ETHYLBENZENE	N	1,362	28	1,390	0	0	1,390	0	0	0	0	0	2,085
METHANOL	N	1,474	266	1,740	0	0	1,740	0	0	0	0	0	6,954
METHYL ISOBUTYL KETONE	N	355	0	355	0	0	355	0	0	0	0	0	3,475
N-BUTYL ALCOHOL	N	777	8	785	0	0	785	0	0	0	0	0	9,041
TOLUENE	N	3,217	116	3,333	0	0	3,333	0	0	0	0	0	14,607
XYLENE (MIXED ISOMERS)	N	5,741	61	5,802	0	0	5,802	0	0	0	0	0	21,561
Total for AKZO NOBEL COATINGS INC		13,238	479	13,717	0	0	13,717	0	0	0	0	0	61,199
ROANOKE (CITY)		STEEL DYNAMICS INC ROANOKE BAR DIV						102 WESTSIDE BLVD				NAICS Code	33111
CHROMIUM COMPOUNDS (EXCEPT F	N	34	35	69	0	10	79	0	0	0	0	0	40,947
MANGANESE COMPOUNDS	N	308	527	835	0	11	846	0	0	0	0	0	395,337
NICKEL COMPOUNDS	N	7	4	11	0	10	21	0	0	0	0	0	3,990
VANADIUM COMPOUNDS	N	0	4	4	0	0	4	0	0	0	0	0	4,359
ZINC COMPOUNDS	N	929	2,300	3,229	0	245	3,474	0	0	0	0	0	2,757,999
Total for STEEL DYNAMICS INC ROANOKE BAR DIV		1,278	2,869	4,147	0	276	4,423	0	0	0	0	0	3,202,632
Total for Above County : (12 reports)		14,516	3,348	17,864	0	276	18,140	0	0	0	0	0	3,263,831

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-61 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ROCKBRIDGE	MODINE MANUFACTURING CO							1221 MAGNOLIA AVE				NAICS Code	33341
CHROMIUM	N	0	0	0	0	0	0	0	0	0	0	0	15,440
COPPER	N	6	24	30	0	2	32	0	0	0	0	0	5,315
Total for MODINE MANUFACTURING CO		6	24	30	0	2	32	0	0	0	0	0	20,755
ROCKBRIDGE	STELLA-JONES CORPORATION							9223 MAURY RIVER ROAD				NAICS Code	32111
CREOSOTE	N	5,654	1,631	7,285	0	0	7,285	0	0	0	0	0	4,067
Total for STELLA-JONES CORPORATION		5,654	1,631	7,285	0	0	7,285	0	0	0	0	0	4,067
Total for Above County : (3 reports)		5,660	1,655	7,315	0	2	7,317	0	0	0	0	0	24,822
ROCKINGHAM	BRIDGEWATER PROCESSING PLANT FACILITY #08							100 QUALITY ST				NAICS Code	31161
AMMONIA	N	9,008	0	9,008	0	0	9,008	0	0	0	0	1,561	1,561
Total for BRIDGEWATER PROCESSING PLANT FACI		9,008	0	9,008	0	0	9,008	0	0	0	0	1,561	1,561
ROCKINGHAM	CARGILL MEAT SOLUTIONS INC							135 HUFFMAN DR				NAICS Code	31161
PERACETIC ACID	N	0	0	0	0	0	0	0	0	60	60	0	60
Total for CARGILL MEAT SOLUTIONS INC		0	0	0	0	0	0	0	0	60	60	0	60
ROCKINGHAM	CARGILL TURKEY PRODUCTION LLC							1 KRATZER RD				NAICS Code	31111
ARSENIC	Y	0	0	0	0	0	0	0	0	0	0	0	0
ARSENIC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
MANGANESE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for CARGILL TURKEY PRODUCTION LLC		0	0	0	0	0	0	0	0	0	0	0	0
ROCKINGHAM	MERCK SHARP & DOHME CORP.							2778 SE SIDE HWY				NAICS Code	32541
ABAMECTIN	N	0	0	0	0	0	0	0	0	21	21	0	286
ACETONITRILE	N	2,670	1,880	4,550	0	0	4,550	0	61,280	13,950	75,230	0	352,560

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-62 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
AMMONIA	N	6,590	3,450	10,040	0	570	10,610	0	0	7,560	7,560	0	0
CHLORINE	N	0	220	220	0	10	230	0	0	1,450	1,450	0	0
CHLOROMETHANE	N	1,370	920	2,290	0	0	2,290	0	0	39,400	39,400	0	0
CYANIDE COMPOUNDS	N	0	20	20	0	100	120	0	0	840	840	0	0
ETHYLENE GLYCOL	N	19	0	19	0	0	19	0	0	27,290	27,290	0	0
HYDRAZINE	N	0	2	3	0	0	3	0	0	3	3	0	0
HYDROCHLORIC ACID (1995 AND AFT	N	650	3,720	4,370	0	0	4,370	0	0	313,590	313,590	0	0
METHANOL	N	7,760	4,870	12,630	0	20	12,650	0	0	318,180	318,180	0	679,540
NITRATE COMPOUNDS	N	0	0	0	0	15	15	0	0	354,090	354,090	0	0
Total for MERCK SHARP & DOHME CORP.		19,059	15,082	34,142	0	715	34,857	0	61,280	1,076,374	1,137,654	0	1,032,386
ROCKINGHAM MILLERCOORS - SHENANDOAH								5135 S EASTSIDE HWY PO BOX 25				NAICS Code	31212
AMMONIA	Y	0	0	0	0	0	0	0	0	0	0	0	0
FORMIC ACID	N	0	0	0	0	0	0	0	0	23,200	23,200	0	0
NITRATE COMPOUNDS	N	0	0	0	0	20,000	20,000	0	0	0	0	0	0
Total for MillerCoors - Shenandoah		0	0	0	0	20,000	20,000	0	0	23,200	23,200	0	0
ROCKINGHAM MONTEBELLO PACKAGING								812 N MAIN ST				NAICS Code	33243
XYLENE (MIXED ISOMERS)	N	0	5,559	5,559	0	0	5,559	0	0	8,672	8,672	0	1,226
Total for Montebello Packaging		0	5,559	5,559	0	0	5,559	0	0	8,672	8,672	0	1,226
ROCKINGHAM PILGRIM'S PRIDE CORP BROADWAY FACILITY								330 CO-OP DR				NAICS Code	31161
AMMONIA	N	960	0	960	0	0	960	0	0	132	132	25,662	25,662
OZONE	N	22	45	67	0	0	67	0	0	33,217	33,217	0	0
Total for PILGRIM'S PRIDE CORP BROADWAY FACI		982	45	1,027	0	0	1,027	0	0	33,349	33,349	25,662	25,662
ROCKINGHAM RR DONNELLEY								2347 KRATZER RD				NAICS Code	32311
CERTAIN GLYCOLEETHERS	N	90,407	6,122	96,529	0	0	96,529	0	0	0	0	1,543	1,543
Total for RR DONNELLEY		90,407	6,122	96,529	0	0	96,529	0	0	0	0	1,543	1,543

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-63 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ROCKINGHAM	TRANSPRINT USA INC.							1000 PLEASANT VALLEY RD				NAICS Code	32311
COPPER COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	1	0
METHANOL	N	0	580	580	0	0	580	0	19,940	17,240	37,180	0	3,740
METHYL ISOBUTYL KETONE	N	60	280	340	0	0	340	0	4,380	8,500	12,880	0	2,700
TOLUENE	N	400	140	540	0	0	540	0	3,520	4,060	7,580	0	3,800
Total for TRANSPRINT USA INC.		460	1,000	1,460	0	0	1,460	0	27,840	29,800	57,640	1	10,240
ROCKINGHAM	VIRGINIA POULTRY GROWERS COOPERATIVE INC BROADWAY FEE							410 S MAIN ST				NAICS Code	31111
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
MANGANESE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for VIRGINIA POULTRY GROWERS COOPERA		0	0	0	0	0	0	0	0	0	0	0	0
ROCKINGHAM	VIRGINIA POULTRY GROWERS COOPERATIVE INC HINTON FACILI							6349 RAWLEY PIKE HWY 33 WE				NAICS Code	31161
NITRATE COMPOUNDS	N	0	0	0	0	71,450	71,450	0	0	237,746	237,746	0	0
Total for VIRGINIA POULTRY GROWERS COOPERA		0	0	0	0	71,450	71,450	0	0	237,746	237,746	0	0
ROCKINGHAM	WHITEWAVE FOODS MOUNT CRAWFORD							6364 S VALLEY PIKE				NAICS Code	31151
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	186,817	186,817
NITRIC ACID	N	0	0	0	0	0	0	0	0	189,798	189,798	0	0
PERACETIC ACID	N	0	0	0	0	0	0	0	0	13,800	13,800	0	0
Total for WHITEWAVE FOODS MOUNT CRAWFORD		0	0	0	0	0	0	0	0	203,598	203,598	186,817	186,817
Total for Above County : (36 reports)		119,916	27,808	147,725	0	92,165	239,890	0	89,120	1,612,799	1,701,919	215,584	1,259,495
RUSSELL	AMERICAN ELECTRIC POWER CLINCH RIVER PLANT							JUNCTION OF ST RTS 664 & 665				NAICS Code	22111
AMMONIA	N	0	960	960	0	1,814	2,774	0	0	4,000,000	4,000,000	0	0
ARSENIC COMPOUNDS	N	10	220	230	18,938	77	19,245	0	0	0	0	0	152
BARIUM COMPOUNDS	N	10	600	610	129,610	212	130,432	0	0	0	0	0	3,000

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-64 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
HYDROCHLORIC ACID (1995 AND AFT	N	0	1,000,000	1,000,000	0	0	1,000,000	0	0	0	0	0	0
HYDROGEN FLUORIDE	N	0	74,000	74,000	0	0	74,000	0	0	3,600	3,600	0	0
MANGANESE COMPOUNDS	N	5	180	185	16,905	0	17,090	0	0	0	0	0	160
SULFURIC ACID - (1994 AND AFTER "	N	0	66,000	66,000	0	0	66,000	0	0	390,000	390,000	0	0
VANADIUM COMPOUNDS	N	5	190	195	26,205	0	26,400	0	0	0	0	0	0
Total for AMERICAN ELECTRIC POWER CLINCH RIV		30	1,142,150	1,142,180	191,658	2,103	1,335,941	0	0	4,393,600	4,393,600	0	3,312
Total for Above County : (8 reports)		30	1,142,150	1,142,180	191,658	2,103	1,335,941	0	0	4,393,600	4,393,600	0	3,312
SALEM (CITY)		GE DRIVES & CONTROLS						1501 ROANOKE BLVD				NAICS Code 33531	
COPPER	N	0	0	0	0	1	1	0	0	0	0	1	110,000
Total for GE DRIVES & CONTROLS		0	0	0	0	1	1	0	0	0	0	1	110,000
SALEM (CITY)		NOVOZYMES BIOLOGICALS INC						111 KESSLER MILL RD				NAICS Code 32541	
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	41	41
Total for NOVOZYMES BIOLOGICALS INC		0	0	0	0	0	0	0	0	0	0	41	41
Total for Above County : (2 reports)		0	0	0	0	1	1	0	0	0	0	42	110,041
SCOTT		DYNO NOBEL PAIGE PLANT						DYNO DR				NAICS Code 32592	
AMMONIA	N	5	5	10	0	0	10	0	18,117	0	18,117	0	0
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	65,938	0	65,938	0	0
Total for DYNO NOBEL PAIGE PLANT		5	5	10	0	0	10	0	84,055	0	84,055	0	0
SCOTT		TEMPUR PRODUCTION USA INC.						4700 BOONE TRAIL RD S				NAICS Code 33791	
TOLUENE-2,4-DIISOCYANATE	N	1	0	1	0	0	1	0	0	0	0	0	902
TOLUENE-2,6-DIISOCYANATE	N	1	0	1	0	0	1	0	0	0	0	0	226
Total for TEMPUR PRODUCTION USA INC.		2	0	2	0	0	2	0	0	0	0	0	1,128
Total for Above County : (4 reports)		7	5	12	0	0	12	0	84,055	0	84,055	0	1,128

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-65 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
SHENANDOAH	CMC HOWELL METAL CO							574 DEPOT RD				NAICS Code	33142
COPPER	N	0	27	27	0	0	27	0	14,273,792	0	14,273,792	0	1,452,166
Total for CMC HOWELL METAL CO		0	27	27	0	0	27	0	14,273,792	0	14,273,792	0	1,452,166
SHENANDOAH	GEORGE'S CHICKEN LLC							19992 SENEDO RD				NAICS Code	31161
CHLORINE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NITRATE COMPOUNDS	N	0	0	0	0	88,334	88,334	0	0	6,525,887	6,525,887	0	2,001
Total for GEORGE'S CHICKEN LLC		0	0	0	0	88,334	88,334	0	0	6,525,887	6,525,887	0	2,001
SHENANDOAH	GEORGES FAMILY FARMS, LLCMT JACKSON FEED MILL							560 CAVERNS RD				NAICS Code	31111
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for Georges Family Farms, LLCMT JACKSON F		0	0	0	0	0	0	0	0	0	0	0	0
SHENANDOAH	IAC-STRASBURG,LLC							806 E QUEEN ST				NAICS Code	33636
DIISOCYANATES	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for IAC-STRASBURG,LLC		0	0	0	0	0	0	0	0	0	0	0	0
SHENANDOAH	MASCO CABINETRY							1325 INDUSTRIAL PARK RD				NAICS Code	33711
METHANOL	N	0	13,476	13,476	0	0	13,476	0	539	0	539	0	539
XYLENE (MIXED ISOMERS)	N	3	13,439	13,442	0	0	13,442	0	538	0	538	0	538
Total for MASCO Cabinetry		3	26,915	26,918	0	0	26,918	0	1,077	0	1,077	0	1,077
SHENANDOAH	RR DONNELLEY STRASBURG DIV							ONE SHENANDOAH VALLEY DR				NAICS Code	32311
CERTAIN GLYCOL ETHERS	N	6,200	80	6,280	0	0	6,280	0	0	15,500	15,500	155	177
NITRATE COMPOUNDS	N	4,100	50	4,150	0	0	4,150	0	0	9,500	9,500	85	85
Total for RR DONNELLEY STRASBURG DIV		10,300	130	10,430	0	0	10,430	0	0	25,000	25,000	240	262
Total for Above County : (9 reports)		10,303	27,072	37,375	0	88,334	125,709	0	14,274,869	6,550,887	20,825,756	240	1,455,506
SMYTH	GENERAL SHALE BRICK INC PLANT 28							7164 LEE HWY				NAICS Code	32712
MANGANESE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-66 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Total for GENERAL SHALE BRICK INC PLANT 28		0	0	0	0	0	0	0	0	0	0	0	0
SMYTH	KENNAMETAL CHILHOWIE							298 KENDALL AVE.				NAICS Code	33313
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for Kennametal Chilhowie		0	0	0	0	0	0	0	0	0	0	0	0
SMYTH	MASCO CABINETRY LLC ATKINS PLANT 12							6373 LEE HWY				NAICS Code	33711
1,2,4-TRIMETHYLBENZENE	N	0	7,365	7,365	0	0	7,365	0	944	0	944	0	743
XYLENE (MIXED ISOMERS)	N	0	13,067	13,067	0	0	13,067	0	3,010	0	3,010	0	923
Total for MASCO CABINETRY LLC ATKINS PLANT 12		0	20,432	20,432	0	0	20,432	0	3,954	0	3,954	0	1,666
SMYTH	ROYAL MOULDINGS LTD; MARION VIRGINIA							135 BEAR CREEK RD				NAICS Code	32619
CERTAIN GLYCOL ETHERS	N	895	16,992	17,887	0	0	17,887	0	0	0	0	0	86
DI(2-ETHYLHEXYL) PHTHALATE	N	16	16	32	0	0	32	0	0	0	0	0	23,352
Total for ROYAL MOULDINGS LTD; MARION VIRGINIA		911	17,008	17,919	0	0	17,919	0	0	0	0	0	23,438
SMYTH	UTILITY TRAILER MANUFACTURING CO							124 MOUNTAIN EMPIRE RD				NAICS Code	33621
DIISOCYANATES	N	2	0	2	0	0	2	0	0	0	0	0	0
Total for UTILITY TRAILER MANUFACTURING CO		2	0	2	0	0	2	0	0	0	0	0	0
Total for Above County : (7 reports)		913	37,440	38,353	0	0	38,353	0	3,954	0	3,954	0	25,104
SOUTHAMPTON	ATLANTIC WOOD INDUSTRIES INC.							21366 GENERAL THOMAS HWY				NAICS Code	32111
ARSENIC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
CHROMIUM COMPOUNDS (EXCEPT F	Y	0	0	0	0	0	0	0	0	0	0	0	0
COPPER COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for ATLANTIC WOOD INDUSTRIES INC.		0	0	0	0	0	0	0	0	0	0	0	0
SOUTHAMPTON	HERCULES INC							27123 SHADY BROOK TRAIL				NAICS Code	32519
1,2-DICHLOROPROPANE	N	49,427	800	50,227	0	6	50,233	0	0	0	0	0	28
HYDROCHLORIC ACID (1995 AND AFT	N	16,716	2,622	19,338	0	0	19,338	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-67 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
TRIETHYLAMINE	N	48,551	862	49,413	0	6	49,419	0	0	0	0	0	28
Total for HERCULES INC		114,694	4,284	118,978	0	12	118,990	0	0	0	0	0	56
SOUTHAMPTON		SOUTHAMPTON POWER STATION						30134 GENERAL THOMAS HWY				NAICS Code	22111
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	328	328	0	0	328	0	0	28,000	28,000	0	0
Total for SOUTHAMPTON POWER STATION		0	328	328	0	0	328	0	0	28,000	28,000	0	0
Total for Above County : (10 reports)		114,694	4,612	119,306	0	12	119,318	0	0	28,000	28,000	0	56
SPOTSYLVANIA		CMC REBAR VIRGINIA						9434 CROSSROADS PKWY				NAICS Code	33231
NICKEL COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for CMC REBAR VIRGINIA		0	0	0	0	0	0	0	0	0	0	0	0
SPOTSYLVANIA		RUFFIN CREEK PROPERTIES LLC						10229 TIDEWATER TRAIL				NAICS Code	32111
COPPER COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for RUFFIN CREEK PROPERTIES LLC		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (2 reports)		0	0	0	0	0	0	0	0	0	0	0	0
STAFFORD		COLONIAL CIRCUITS INC.						1026 WARRENTON RD				NAICS Code	33441
COPPER	N	0	0	0	0	0	0	0	0	0	0	5	0
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	750
Total for COLONIAL CIRCUITS INC.		0	0	0	0	0	0	0	0	0	0	5	750
STAFFORD		MAPEI CORP						300 NELMS CIR				NAICS Code	32552
LITHIUM CARBONATE	N	0	6	6	0	0	6	0	0	0	0	0	554
Total for MAPEI CORP		0	6	6	0	0	6	0	0	0	0	0	554
STAFFORD		W.R. GRACE & CO. - CONN. GRACE CONSTRUCTION PRODUCTS						1101 INTERNATIONAL PKWY				NAICS Code	42469

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-68 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
NITRATE COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for W.R. GRACE & CO. - CONN. GRACE CONS		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (4 reports)		0	6	6	0	0	6	0	0	0	0	5	1,304
SUFFOLK (CITY)	BASF CORP							2301 WILROY RD				NAICS Code	32519
ACRYLAMIDE	N	55	14	69	0	0	69	0	0	17,974	17,974	2,090	4,570
ACRYLIC ACID	N	411	311	722	0	0	722	0	0	20,407	20,407	0	717
ACRYLONITRILE	N	1,925	1,344	3,269	0	0	3,269	0	0	26,455	26,455	5	161
AMMONIA	N	2	1,976	1,978	0	0	1,978	0	0	580	580	2,330	3,119
COPPER	N	0	0	0	0	0	0	0	0	0	0	72	839
ETHYL ACRYLATE	N	52	54	106	0	0	106	0	0	90	90	142	1,233
ETHYLENE GLYCOL	N	18	0	18	0	0	18	0	0	0	0	87	2,948
METHANOL	N	2,359	3,377	5,736	0	0	5,736	0	3,283,525	33,690	3,317,215	10,254	23,033
METHYL METHACRYLATE	N	51	61	112	0	0	112	0	0	48	48	89	955
Total for BASF CORP		4,873	7,137	12,010	0	0	12,010	0	3,283,525	99,244	3,382,769	15,069	37,575
SUFFOLK (CITY)	CAMERON CHEMICAL INC.							830 OLD DILL RD.				NAICS Code	32531
COPPER COMPOUNDS	N	250	250	500	0	0	500	0	0	0	0	0	0
MANGANESE COMPOUNDS	N	250	250	500	0	0	500	0	0	0	0	0	0
ZINC COMPOUNDS	N	250	250	500	0	5	505	0	0	0	0	0	0
Total for Cameron Chemical Inc.		750	750	1,500	0	5	1,505	0	0	0	0	0	0
SUFFOLK (CITY)	PUGH LUBRICANTS SUFFOLK							2000 AMEDEO CT				NAICS Code	42471
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
ZINC COMPOUNDS	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for PUGH LUBRICANTS SUFFOLK		0	0	0	0	0	0	0	0	0	0	0	0
SUFFOLK (CITY)	UNIVAR USA INC SUFFOLK FACILITY							201 SUBURBAN DR				NAICS Code	42469

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-69 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
NITRIC ACID	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for UNIVAR USA INC SUFFOLK FACILITY		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (16 reports)		5,623	7,887	13,510	0	5	13,515	0	3,283,525	99,244	3,382,769	15,069	37,575
SUSSEX MURPHY-BROWN LLC WAVERLY FEED MILL								27404 CABIN POINT RD				NAICS Code 31111	
ZINC (FUME OR DUST)	N	0	5	5	0	0	5	0	0	0	0	0	7
Total for MURPHY-BROWN LLC WAVERLY FEED MI		0	5	5	0	0	5	0	0	0	0	0	7
Total for Above County : (1 record)		0	5	5	0	0	5	0	0	0	0	0	7
TAZEWELL PETROLEUM PRODUCT BLUEFIELD PLANT 081								716 VIRGINIA AVE				NAICS Code 42471	
BENZENE	N	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLBENZENE	N	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	N	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE	N	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for PETROLEUM PRODUCT BLUEFIELD PLANT		0	0	0	0	0	0	0	0	0	0	0	0
TAZEWELL PETROLEUM PRODUCT BLUEFIELD PLANT 082								757 N COLLEGE AVE				NAICS Code 42471	
1,2,4-TRICHLOROBENZENE	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for PETROLEUM PRODUCT BLUEFIELD PLANT		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (6 reports)		0	0	0	0	0	0	0	0	0	0	0	0
VIRGINIA BEACH (CITY) AETNA INSULATED WIRE INC								1537 AIR RAIL AVE				NAICS Code 33142	
ANTIMONY COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	12,193
COPPER	N	0	0	0	0	5	5	0	0	0	0	0	2,940,958
DECABROMODIPHENYL OXIDE	N	0	0	0	0	0	0	0	0	0	0	0	7,156
ZINC COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	7,535
Total for AETNA INSULATED WIRE INC		0	0	0	0	5	5	0	0	0	0	0	2,967,842

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-70 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
VIRGINIA BEACH (CITY)	STIHL INC							536 VIKING DR				NAICS Code	33311
1,2,4-TRIMETHYLBENZENE	N	29	2,154	2,183	0	0	2,183	0	0	0	0	0	0
TOLUENE	N	105	7,818	7,923	0	0	7,923	0	0	0	0	0	0
Total for STIHL INC		134	9,972	10,106	0	0	10,106	0	0	0	0	0	0
VIRGINIA BEACH (CITY)	U.S. NAVY NAVAL AIR STATION OCEANA BASE							1750 TOMCAT BLVD				NAICS Code	92811
NAPHTHALENE	N	9	13	22	0	0	22	0	0	0	0	0	0
Total for U.S. NAVY NAVAL AIR STATION OCEANA		9	13	22	0	0	22	0	0	0	0	0	0
Total for Above County : (7 reports)		143	9,985	10,128	0	5	10,133	0	0	0	0	0	2,967,842
WARREN	DUPONT FRONT ROYAL PLANT							7961 WINCHESTER RD				NAICS Code	32551
1,2,4-TRIMETHYLBENZENE	N	0	1	1	0	0	1	0	0	0	0	0	0
1,2-BUTYLENE OXIDE	N	7	79	86	0	0	86	0	0	0	0	0	0
ACRYLIC ACID	N	1	6	7	0	0	7	0	0	0	0	0	0
BUTYL ACRYLATE	N	8	88	96	0	0	96	0	0	0	0	0	347
CERTAIN GLYCOL ETHERS	N	2	20	22	0	0	22	0	0	0	0	0	212,879
CHROMIUM COMPOUNDS (EXCEPT F	N	0	0	0	0	0	0	0	0	0	0	0	0
CUMENE	N	0	0	0	0	0	0	0	0	0	0	0	0
DIISOCYANATES	N	0	1	1	0	0	1	0	0	10	10	0	130,390
ETHYL ACRYLATE	N	4	42	46	0	0	46	0	0	0	0	0	347
ETHYLBENZENE	N	10	111	121	0	0	121	0	0	0	0	0	358,918
FORMALDEHYDE	N	0	0	0	0	0	0	0	0	0	0	0	1,373
METHANOL	N	21	227	248	0	0	248	0	0	1,799	1,799	0	0
METHYL ACRYLATE	N	18	190	208	0	0	208	0	0	0	0	0	155
METHYL ISOBUTYL KETONE	N	6	66	72	0	0	72	0	0	523	523	0	106,439
METHYL METHACRYLATE	N	31	325	356	0	0	356	0	0	0	0	0	440
N-BUTYL ALCOHOL	N	16	174	190	0	0	190	0	0	0	0	0	0

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-71 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
PHTHALIC ANHYDRIDE	N	2	22	24	0	0	24	0	0	0	0	0	230
PROPYLENEIMINE	N	0	0	0	0	0	0	0	0	0	0	0	0
STYRENE	N	5	49	54	0	0	54	0	0	0	0	0	440
TOLUENE	N	101	1,078	1,179	0	0	1,179	0	0	8,542	8,542	0	941,449
VANADIUM COMPOUNDS	N	0	2	2	0	0	2	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	N	96	1,017	1,113	0	0	1,113	0	0	8,057	8,057	0	725,107
ZINC COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
Total for DUPONT FRONT ROYAL PLANT		328	3,498	3,826	0	0	3,826	0	0	18,931	18,931	0	2,478,514
WARREN QUARLES PETROLEUM INC. FRONT ROYAL BULK PLANT								195 COMMERCE AVE				NAICS Code	42471
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
BENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
ETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
TOLUENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
XYLENE (MIXED ISOMERS)	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for QUARLES PETROLEUM INC. FRONT ROYA		0	0	0	0	0	0	0	0	0	0	0	0
WARREN RPS COMPOSITES VIRGINIA, INC.								211 E 4TH ST				NAICS Code	32619
STYRENE	N	7,576	234	7,810	0	0	7,810	0	0	0	0	0	0
Total for RPS Composites Virginia, Inc.		7,576	234	7,810	0	0	7,810	0	0	0	0	0	0
WARREN TORAY PLASTICS INC								500 TORAY DR				NAICS Code	32615
NITRATE COMPOUNDS	N	0	0	0	0	0	0	0	161,489	0	161,489	0	6,511
SODIUM NITRITE	N	0	0	0	0	0	0	0	197,257	0	197,257	0	10,243
Total for TORAY PLASTICS INC		0	0	0	0	0	0	0	358,746	0	358,746	0	16,754
Total for Above County : (32 reports)		7,904	3,732	11,636	0	0	11,636	0	358,746	18,931	377,677	0	2,495,268
WASHINGTON AGC FLAT GLASS NORTH AMERICA ABINGDON PLANT								18370 OAK PARK DR				NAICS Code	32721

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBTchemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A , no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-72 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
SILVER	N	5	5	10	0	0	10	0	0	0	0	0	12,477
Total for AGC FLAT GLASS NORTH AMERICA ABING		5	5	10	0	0	10	0	0	0	0	0	12,477
WASHINGTON	APPALACHIAN PLASTICS INC.							34001 GLOVE DR				NAICS Code	32619
METHYL METHACRYLATE	N	719	2,157	2,876	0	0	2,876	0	0	0	0	0	0
STYRENE	N	5,720	17,160	22,880	0	0	22,880	0	0	0	0	0	0
Total for APPALACHIAN PLASTICS INC.		6,439	19,317	25,756	0	0	25,756	0	0	0	0	0	0
WASHINGTON	AZZ GALVANIZING BRISTOL							14781 INDUSTRIAL PARK RD				NAICS Code	33281
ZINC COMPOUNDS	N	890	0	890	0	86	976	0	0	0	0	0	44,523
Total for AZZ Galvanizing Bristol		890	0	890	0	86	976	0	0	0	0	0	44,523
WASHINGTON	BRISTOL COMPRESSORS INTERNATIONAL INC							15185 INDUSTRIAL PARK RD				NAICS Code	33341
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	79,700
Total for BRISTOL COMPRESSORS INTERNATIONAL		0	0	0	0	0	0	0	0	0	0	0	79,700
WASHINGTON	HIRSCHFELD INDUSTRIES, LP							15083 INDUSTRIAL PARK RD				NAICS Code	33231
MANGANESE	N	0	2	2	0	0	2	0	0	0	0	0	32,705
Total for Hirschfeld Industries, LP		0	2	2	0	0	2	0	0	0	0	0	32,705
WASHINGTON	SAMUEL, SON & CO. LTD. STEEL FAB DIV (PLANT #1)							17403 LEE HWY				NAICS Code	33242
MANGANESE	N	40	0	40	0	0	40	0	0	0	0	0	669
Total for Samuel, Son & Co. Ltd. Steel Fab Div (PLAN		40	0	40	0	0	40	0	0	0	0	0	669
WASHINGTON	SAMUEL, SON & CO. LTD.. STEEL FAB DIV (PLANT #2)							17074 LEE HWY				NAICS Code	33242
MANGANESE	N	3	0	3	0	0	3	0	0	0	0	0	17,106
Total for SAMUEL, SON & CO. LTD.. STEEL FAB DIV		3	0	3	0	0	3	0	0	0	0	0	17,106
WASHINGTON	SANDVIK MINING & CONSTRUCTION CO							15020 INDUSTRIAL PARK RD				NAICS Code	33299
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	10,634
Total for SANDVIK MINING & CONSTRUCTION CO		0	0	0	0	0	0	0	0	0	0	0	10,634

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-73 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
WASHINGTON STRONGWELL CORP HIGHLANDS DIV								26770 NEWBANKS RD				NAICS Code	32619
ANTIMONY	N	0	5	5	0	0	5	0	0	0	0	0	750
DECABROMODIPHENYL OXIDE	N	0	5	5	0	0	5	0	0	0	0	0	780
STYRENE	N	10,482	0	10,482	0	0	10,482	0	0	0	0	0	950
Total for STRONGWELL CORP HIGHLANDS DIV		10,482	10	10,492	0	0	10,492	0	0	0	0	0	2,480
WASHINGTON ZENITH FUEL SYSTEMS LLC								14570 INDUSTRIAL PARK RD				NAICS Code	33631
ZINC COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	25
Total for ZENITH FUEL SYSTEMS LLC		0	0	0	0	0	0	0	0	0	0	0	25
Total for Above County : (13 reports)		17,858	19,334	37,192	0	86	37,278	0	0	0	0	0	200,319
WESTMORELAND CARRY-ON TRAILER CORP								159 INDUSTRIAL PARK RD				NAICS Code	33621
1,2,4-TRIMETHYLBENZENE	N	0	5,420	5,420	0	0	5,420	0	0	5,841	5,841	0	1,349
CERTAIN GLYCOL ETHERS	N	0	7,850	7,850	0	0	7,850	0	0	16,034	16,034	0	3,420
MANGANESE	N	136	0	136	0	0	136	0	0	0	0	0	899
NICKEL	N	7	0	7	0	0	7	0	0	0	0	0	583
Total for CARRY-ON TRAILER CORP		143	13,270	13,413	0	0	13,413	0	0	21,875	21,875	0	6,251
WESTMORELAND POTOMAC SUPPLY CORP								1398 KINSALE RD				NAICS Code	32111
COPPER COMPOUNDS	N	0	0	0	0	0	0	0	0	0	0	0	0
METHANOL	Y	0	0	0	0	0	0	0	0	0	0	0	0
Total for POTOMAC SUPPLY CORP		0	0	0	0	0	0	0	0	0	0	0	0
Total for Above County : (6 reports)		143	13,270	13,413	0	0	13,413	0	0	21,875	21,875	0	6,251
WINCHESTER (CITY) FEDERAL-MOGUL CORPORATION								2410 PAPERMILL RD				NAICS Code	33634
ALUMINUM OXIDE (FIBROUS FORMS)	N	68	68	136	6,834	0	6,970	0	0	0	0	0	9,706
COPPER	N	36	36	72	3,614	0	3,686	0	0	0	0	0	5,132
PHENOL	N	63	1,354	1,417	6,294	0	7,711	0	0	0	0	0	9,033

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-74 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
ZINC COMPOUNDS	N	27	27	54	2,745	0	2,799	0	0	0	0	0	3,903
Total for FEDERAL-MOGUL CORPORATION		194	1,485	1,679	19,487	0	21,166	0	0	0	0	0	27,774
WINCHESTER (CITY)	O'SULLIVAN FILMS INC.							1944 VALLEY AVE				NAICS Code	32611
ANTIMONY COMPOUNDS	N	8	42	50	0	0	50	0	0	0	0	0	50
BARIUM COMPOUNDS	N	8	48	56	0	0	56	0	0	0	0	0	4
CYCLOHEXANE	N	87	410	497	0	0	497	0	0	22,354	22,354	0	757
DI(2-ETHYLHEXYL) PHTHALATE	N	87	495	582	0	0	582	0	0	0	0	0	0
ETHYLBENZENE	N	0	193	193	0	0	193	0	0	16,804	16,804	0	539
METHYL ISOBUTYL KETONE	N	22	2,939	2,961	0	0	2,961	0	39,552	201,742	241,294	0	6,713
N,N-DIMETHYLFORMAMIDE	N	0	2,374	2,374	0	0	2,374	0	977	218,722	219,699	0	7,077
N-METHYL-2-PYRROLIDONE	N	524	9,962	10,486	0	0	10,486	0	0	140	140	0	376
TOLUENE	N	4	7,217	7,221	0	0	7,221	0	4,264	562,990	567,254	0	18,660
XYLENE (MIXED ISOMERS)	N	87	1,470	1,557	0	0	1,557	0	5,274	114,075	119,349	0	3,736
ZINC COMPOUNDS	N	22	127	149	0	0	149	0	0	0	0	0	168
Total for O'SULLIVAN FILMS INC.		849	25,277	26,126	0	0	26,126	0	50,067	1,136,827	1,186,894	0	38,080
Total for Above County : (15 reports)		1,043	26,762	27,805	19,487	0	47,292	0	50,067	1,136,827	1,186,894	0	65,854
WYTHE	HUTCHINSON SEALING SYSTEMS INC							1150 S THIRD ST				NAICS Code	32629
ZINC COMPOUNDS	N	31	1,027	1,058	0	0	1,058	0	0	0	0	4	16
Total for HUTCHINSON SEALING SYSTEMS INC		31	1,027	1,058	0	0	1,058	0	0	0	0	4	16
WYTHE	R.H. SHEPPARD CO. INC.							1400 STAFFORD-UMBERGER DR				NAICS Code	33633
MANGANESE	N	0	0	0	0	0	0	0	0	0	0	0	32,625
Total for R.H. SHEPPARD CO. INC.		0	0	0	0	0	0	0	0	0	0	0	32,625
Total for Above County : (2 reports)		31	1,027	1,058	0	0	1,058	0	0	0	0	4	32,641
YORK	DOMINION RESOURCES INC YORKTOWN POWER STATION							1600 WATERVIEW RD				NAICS Code	22111

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-75 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address													
Chemical Name	form A*	Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
1,2,4-TRIMETHYLBENZENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
BARIUM COMPOUNDS	N	0	29	29	25,900	48,800	74,729	0	0	0	0	3	86
HYDROCHLORIC ACID (1995 AND AFT	N	0	587,000	587,000	0	0	587,000	0	0	0	0	0	0
HYDROGEN FLUORIDE	N	0	73,700	73,700	0	0	73,700	0	0	0	0	0	0
NAPHTHALENE	Y	0	0	0	0	0	0	0	0	0	0	0	0
N-HEXANE	Y	0	0	0	0	0	0	0	0	0	0	0	0
SULFURIC ACID - (1994 AND AFTER "	N	0	91,600	91,600	0	0	91,600	0	0	289,000	289,000	0	0
VANADIUM COMPOUNDS	N	0	322	322	35,600	0	35,922	0	0	0	0	0	8,020
Total for DOMINION RESOURCES INC YORKTOWN		0	752,651	752,651	61,500	48,800	862,951	0	0	289,000	289,000	3	8,106
YORK EATON CORPORATION - WILLIAMSBURG MANUFACTURING								149 WARWICK COURT				NAICS Code	33599
CHROMIUM	N	0	0	0	0	0	0	0	0	0	0	0	19,301
NICKEL	N	0	0	0	0	0	0	0	0	0	0	0	12,586
Total for Eaton Corporation - Williamsburg Manufacturi		0	0	0	0	0	0	0	0	0	0	0	31,887
YORK US NAVY DEFENSE FUEL SUPPORT POINT YORKTOWN FUELS								YORKTOWN FUEL TERMINAL				NAICS Code	92811
NAPHTHALENE	N	16	81	97	0	0	97	0	0	0	0	0	0
Total for US NAVY DEFENSE FUEL SUPPORT POIN		16	81	97	0	0	97	0	0	0	0	0	0
YORK YORKTOWN REFINERY								2201 GOODWIN NECK RD				NAICS Code	32411
1,2,4-TRIMETHYLBENZENE	N	3,101	25	3,126	0	0	3,126	0	0	21	21	0	4,325
AMMONIA	N	2,130	59	2,189	0	743	2,932	0	0	68,796	68,796	0	1,272
ANTHRACENE	N	1,088	0	1,088	0	0	1,088	0	0	0	0	0	530
BENZENE	N	1,470	276	1,746	0	2	1,748	0	0	2,467	2,467	0	299
CRESOL (MIXED ISOMERS)	N	0	0	0	0	0	0	0	0	27,062	27,062	0	22
CUMENE	N	434	8	442	0	0	442	0	0	1	1	0	0
CYCLOHEXANE	N	1,714	311	2,025	0	0	2,025	0	0	1,001	1,001	0	22
ETHYLBENZENE	N	1,294	49	1,343	0	1	1,344	0	0	549	549	0	359

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBT chemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A, no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-76 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.

2011 Toxics Release Inventory

Appendix F

Facility County/Independent City		On-Site Releases from Section 5 of Form R						On-Site Management from Section 8 of Form R				Off-Site Transfers from Section 6 of Form R	
Facility Name/Address		Fugitive Air (pounds)	Stack Air (pounds)	Total Air (pounds)	Land (pounds)	Water (pounds)	Total On-Site Releases (pounds)	Energy Recovery (pounds)	Recycling (pounds)	Treatment (pounds)	Total On-Site Management (pounds)	POTW (pounds)	Total Other Off-Site Transfers ** (pounds)
Chemical Name	form A*												
NAPHTHALENE	N	1,115	3	1,118	0	1	1,119	0	0	391	391	0	5,729
N-HEXANE	N	3,349	2,570	5,919	0	0	5,919	0	0	6,915	6,915	0	94
PHENANTHRENE	N	83	0	83	0	0	83	0	0	0	0	0	0
PHENOL	N	358	0	358	0	0	358	0	0	39,153	39,153	0	9
TOLUENE	N	6,254	443	6,697	0	1	6,698	0	0	4,109	4,109	0	1,457
VANADIUM (EXCEPT WHEN CONTAI	N	1	0	1	0	8	9	0	0	0	0	0	343
XYLENE (MIXED ISOMERS)	N	6,238	706	6,944	0	1	6,945	0	0	2,504	2,504	0	6,653
Total for YORKTOWN REFINERY		28,629	4,450	33,079	0	757	33,836	0	0	152,969	152,969	0	21,115
Total for Above County : (26 reports)		28,645	757,181	785,826	61,500	49,557	896,883	0	0	441,969	441,969	3	61,108

* A "Y" in the FORM A column means a simplified Form A was submitted. An "N" means the full Form R was submitted. Facilities may report using the Form A for a non-PBTchemical if the total annual reportable amount for that chemical does not exceed 500 pounds and the amount manufactured, processed, or otherwise used for that chemical does not exceed 1 million pounds. When filing a Form A , no amounts are reported but by default the appendix lists them as zero.

** TOTAL OTHER OFF-SITE TRANSFERS = ALL OF FORM R SECTION 6.2 OFF-SITE TRANSFERS (DISPOSAL + TREATMENT + ENERGY RECOVERY + RECYCLING)

Page F-77 of F-77

*** ALLIANT TECHSYSTEMS AND RADFORD ARMY AMMUNITION ARE THE SAME FACILITY, REPORTING UNDER TWO SEPERATE IDS; APPENDIX H INCLUDES BOTH SUBMISSIONS HOWEVER THE SUMMARY REPORT REFLECTS ONLY ONE SET OF DATA VALUES FOR TOTALS.